

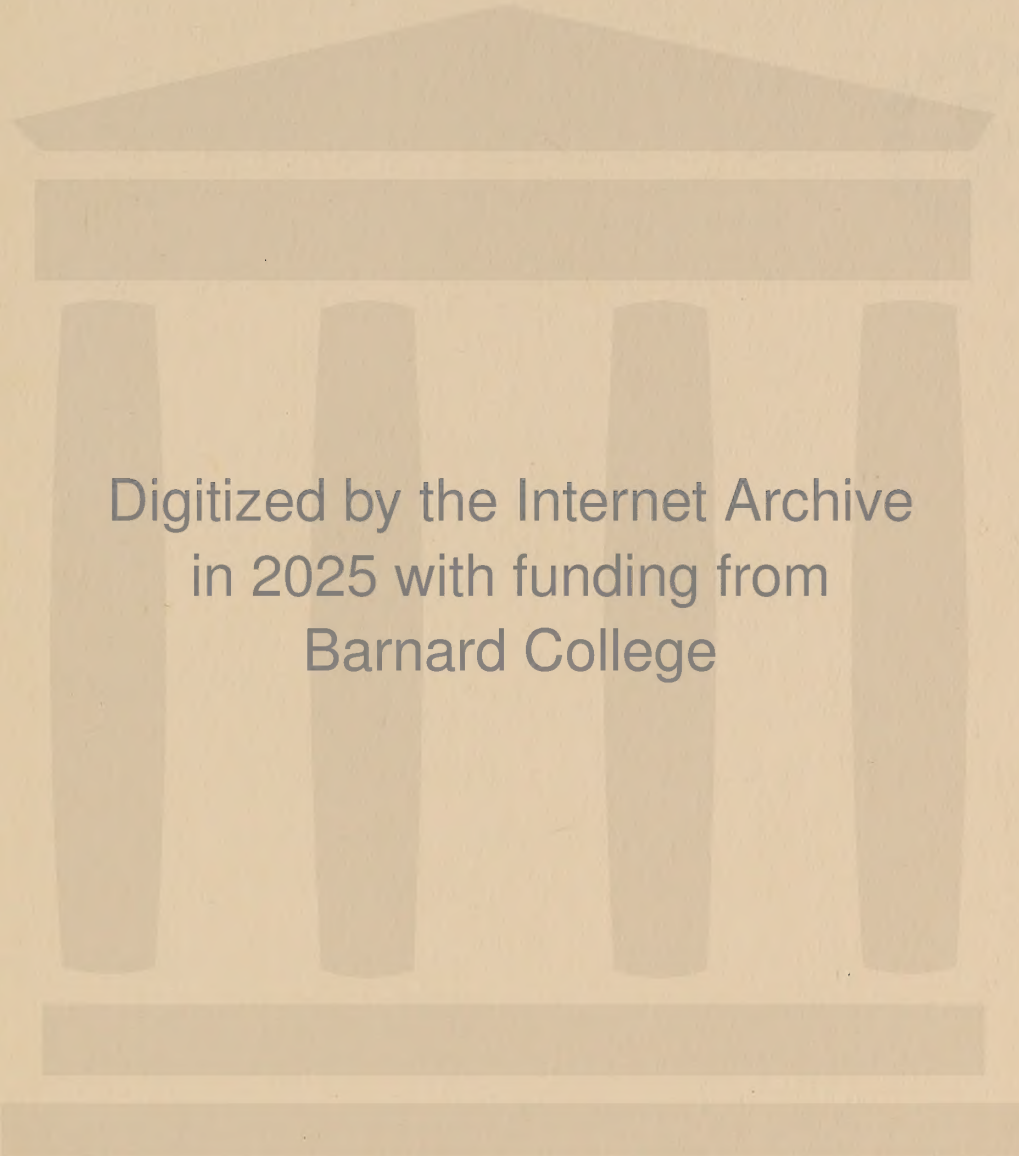




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# BARNARD COLLEGE

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The Undergraduate  
College of Liberal  
Arts for Women of  
Columbia University  
1972-1973



Morningside Heights  
New York, N.Y. 10027



The post office address is Barnard College, 606 West 120th Street, New York, N.Y. 10027. The telephone number is (Area Code 212) 280-1754.

Inquiries should be addressed as follows:

General matters pertaining to the College: **Office of the President**

Academic work of students: **Class Advisers**

Admission to the freshman class or with advanced standing; information about financial aid for entering students; request for Announcements: **Director of Admissions**

Alumnae: **Director of Alumnae Affairs**

Faculty and curriculum matters: **Office of Dean of the Faculty**

Financial aid and loan funds for students in college: **Director of Financial Aid**

Gifts or bequests: **Director of Development**

Health: **Director of Health Services**

Housing: **Director of Residence**

Notice of withdrawal: **Dean of Studies**

Opportunities for self-help; recommendations for employment: **Office of Placement and Career Planning**

Payment of College bills: **Bursar**

Public relations: **Director of Public Relations**

Requests for transcripts: **Registrar**

Student Activities: **Director of the Millicent McIntosh Center**



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1972

<b>JANUARY</b> S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>MAY</b> S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>SEPTEMBER</b> S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
<b>FEBRUARY</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	<b>JUNE</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	<b>OCTOBER</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
<b>MARCH</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>JULY</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>NOVEMBER</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
<b>APRIL</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	<b>AUGUST</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>DECEMBER</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

1973

<b>JANUARY</b> S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>MAY</b> S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>SEPTEMBER</b> S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
<b>FEBRUARY</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	<b>JUNE</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	<b>OCTOBER</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
<b>MARCH</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>JULY</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>NOVEMBER</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
<b>APRIL</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	<b>AUGUST</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>DECEMBER</b> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



## Fall Term 1972

- July 3** Monday. Last day for refund of Autumn Term deposit.
- August 10** Thursday. Last day for payment of bill for Autumn Term.
- September 1** Friday. Last day for filing applications for deferred examinations.
- 5** Tuesday. Language Placement Examinations.
- 5-8** Tuesday through Friday. Registration for Autumn Term.
- 7** Thursday. Autumn Term, eighty-fourth year begins. Classes begin 9 a.m. Convocation, 1 p.m.
- 12-13** Tuesday and Wednesday. Deferred examinations for students absent from the May 1972 final examinations in Barnard courses.
- 18-22** Monday through Friday. Deferred examinations for students absent from the May 1972 final examinations in Columbia courses.
- 19-20** Tuesday and Wednesday. Program filing. Last day for adding a course, Autumn Term.
- 28** Thursday. Last day for submitting work for courses in which grades of Inc. (incomplete) were given in Spring Term.
- October 13** Friday. Last day for filing diploma name cards for the degree in February 1973.
- 24** Tuesday. Midterm date.
- 25** Wednesday. Award of October degrees.
- November 1** Wednesday. Last day for refund of Spring Term deposit.
- 6** Monday. Academic Holiday.
- 7** Tuesday. Election Day. Holiday.
- 9** Thursday. Required meetings for planning programs.
- 17** Friday. Last day for filing requests for pass-fail grades in Autumn Term courses.
- 21** Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
- 22** Wednesday. Last day for filing tentative Spring Term programs.
- 22** Wednesday. Last day for dropping a course, Autumn Term.
- 23-26** Thursday through Sunday. Thanksgiving holidays.
- December 6-8** Wednesday through Friday. Major examinations for February graduates.
- 15** Friday. Midyear examinations begin.
- 15** Friday. Last day for payment of bill for Spring Term.
- 22** Friday. Autumn Term ends.
- 23** Saturday, through January 21, 1973, Sunday. Winter holidays. Residence halls closed.

**Spring Term 1973**

- January 22-23** Monday and Tuesday. Registration for Spring Term.
- 22 Monday. Language Placement Examinations.
- 22 Monday. Spring Term begins. Classes begin 9 a.m.
- 24 Wednesday. Last day for filing diploma name cards for the degree in June 1973.
- 26 Friday. Last day for filing applications for deferred examinations in Barnard courses and "V" courses.
- 29-30 Monday and Tuesday. Deferred examinations for students absent from the December 1972 final examinations in Barnard courses.
- February 1-2** Thursday and Friday. Program filing. Last day for adding a course, Spring Term.
- 12 Monday. Last day for submitting work for courses in which grades of Inc. (incomplete) were given in Fall Term.
- 14 Wednesday. Award of February degrees.
- 15 Thursday. Last day for filing applications for financial aid for 1973-1974.
- 19 Monday. Last day for filing applications for deferred examinations in Columbia courses (except "V" courses; see January 26).
- 19 Monday. Washington's Birthday. Holiday.
- March 8** Thursday. Midterm date.
- 10-18 Saturday through Sunday. Spring holidays.
- 19-23 Monday through Friday. Deferred examinations for students absent from the December 1972 final examinations in Columbia courses.
- 23 Friday. Last day for filing requests for pass-fail grades in Spring Term courses.
- 30 Friday. Last day for dropping a course, Spring Term.
- April 10** Tuesday. Required meetings for planning programs.
- 11-13 Wednesday through Friday. Major examinations for June and October graduates.
- May 1** Tuesday. Last day for payment of deposit for 1973-1974 academic year.
- 1 Tuesday. Last day for filing tentative Autumn Term programs.
- 1 Tuesday. Last day for filing diploma name cards for the degree in October 1973.
- 4 Friday. Final examinations begin.
- 11 Friday. Spring Term ends.
- 13 Sunday. Baccalaureate Service.
- 16 Wednesday. Conferring of degrees.





**Trustees of  
Barnard College**

<i>Chairman</i>	Wallace S. Jones
<i>Vice-Chairman</i>	Francis T. P. Plimpton
<i>Vice-Chairman</i>	Robert L. Hoguet
<i>Clerk</i>	Mrs. Frank Altschul
	Mrs. Hugh Auchincloss
	Mrs. Jonathan Bingham
	Walter J. P. Curley, Jr.
	Mrs. John Elliott, Jr.
	Richard M. Furlaud
	Miss Ellen Futter
	Roy M. Goodman
	Mrs. Iola S. Haverstick
	Robert S. Hutchins
	Mrs. Eliot Janeway
	Jacques G. Maisonrouge
	William A. Marsteller
	President William J. McGill, <i>ex officio</i>
	Samuel R. Milbank
	Miss Martha Peterson, <i>Honorary Trustee</i>
	Mrs. Sydney S. Spivack
	Miss Barbara M. Watson
	Mrs. Frederick J. Woodbridge
	Mrs. Talcott Bates, <i>Alumnae Trustee</i>
	Mrs. John A. H. Carver, <i>Alumnae Trustee</i>
	Mrs. Lewis Goldenheim, <i>Alumnae Trustee</i>
	Mrs. Seymour Graubard, <i>Alumnae Trustee</i>
	Mrs. Arthur H. Sulzberger, <i>Trustee Emeritus</i>

**FACULTY REPRESENTATIVES TO MEET WITH TRUSTEES**

Professor Annette Baxter  
Professor Donald D. Ritchie



## The Faculty of Barnard College

Martha Peterson, 1967, *President of Barnard College and Dean in the University*

*A.B., M.A., Ph.D., Kansas; LL.D., L.H.D.*

LeRoy C. Breunig, 1953, *Dean of the Faculty and Professor of French*

*A.B., DePauw; Ph.D., Cornell*

Barbara S. Schmitter, 1957, *Dean of Studies and Associate Professor of Psychology*

*A.B., Nebraska; M.A., Columbia*

Helen H. Bacon, 1961, *Professor of Greek and Latin*

*A.B., Ph.D., Bryn Mawr*

Helen Phelps Bailey, 1933, *Professor of French*

*A.B., Barnard; M.A., Ph.D., Columbia*

Bernard Barber, 1952, *Professor of Sociology*

*A.B., M.A., Ph.D., Harvard*

*Absent on leave, 1972-73.*

Annette K. Baxter, 1952, *Professor of History*

*A.B., Barnard; M.A., Smith, Radcliffe; Ph.D., Brown*

*Absent on leave, Spring Term.*

Toby E. Berger, 1971, *Instructor in Geography*

*A.B., Barnard; M.A.T., Harvard*

Brigitte L. Bradley, 1962, *Associate Professor of German*

*A.B., William and Mary; D. d'Université, Strasbourg; M.A.,*

*Ph.D., Columbia*

Alice Braunwarth, 1969, *Instructor in Physical Education*

*A.B., Hunter; M.S., Springfield*

Joseph Gerard Brennan, 1947, *Professor of Philosophy*

*A.B., Boston College; M.A., Harvard; Ph.D., Columbia*

Demetrios Caraley, 1961, *Professor of Political Science*

*A.B., Ph.D., Columbia*

Patricia Carpenter, 1961, *Associate Professor of Music*

*A.B., California; Ph.D., Columbia*

Luz Castaños, 1967, *Associate in Spanish*

*A.B., M.A., Hunter*

Elizabeth Louise Caughran, 1956, *Associate in English*

*A.B., Russell Sage; M.A., Columbia*

John W. Chambers, 1972, *Instructor in History*

*B.S., Temple; M.A., San Francisco State*

Joy Chute, 1964, *Adjunct Associate Professor of English*

Edward S. Cobb, 1963, *Assistant Professor of Psychology*

*A.B., M.A., Ph.D., Columbia*

The dates refer to the beginning of service in the College and not necessarily to the assumption of the current title.

- William A. Corpe, 1956, *Professor of Biology*  
*A.B., M.A., Wisconsin; Ph.D., Pennsylvania State*
- Dennis G. Dalton, 1969, *Associate Professor of Political Science*  
*A.B., Rutgers; M.A., Chicago; Ph.D., London*
- Elizabeth C. Dalton, 1965, *Associate in English*  
*A.B., California; M.A., Ohio State*
- Lynn Davis, 1970, *Assistant Professor of Political Science*  
*A.B., Duke; M.A., Ph.D., Columbia*
- Gay A. Delanghe, 1966, *Associate in Physical Education*  
*A.B., M.A., Michigan*
- Bette Stubing Denich, 1968, *Assistant Professor of Anthropology*  
*A.B., Antioch; Ph.D., California*
- Hervé Denis, 1971, *Instructor in French*  
*Licence ès Sciences Economiques, Faculté de Droit de Paris*
- Samuel Devons, 1970, *Professor of Physics*  
*B.A., M.A., Ph.D., Cambridge University*
- Marjorie Housepian Dobkin, 1957-59; 1960, *Associate in English*  
*A.B., Barnard; M.A., Columbia*
- Hubert Doris, 1957, *Professor of Music*  
*A.B., Harvard; M.A., Columbia*
- Sigalia Dostrovsky, 1971, *Assistant Professor of Physics*  
*A.B., Vassar; M.A., Ph.D., Princeton*
- Patricia L. Dudley, 1959, *Associate Professor of Biology*  
*A.B., M.A., Colorado; Ph.D., Washington*
- Lois A. Ebin, 1969, *Assistant Professor of English*  
*A.B., Smith; M.A., Ph.D., Columbia*
- David W. Ehrenfeld, 1967, *Associate Professor of Biology*  
*A.B., M.D., Harvard; Ph.D., Florida*
- Hester A. Eisenstein, 1970, *Coordinator of the Experimental College*  
*A.B., Radcliffe; M.A., Ph.D., Yale*
- Ann Fagan, 1969, *Assistant Professor of History*  
*A.B., Carleton; Ph.D., Bryn Mawr*
- Patricia N. Farnsworth, 1967, *Assistant Professor of Biology*  
*A.B., Morningside; M.S., Ph.D., Columbia*
- Bruce Feld, 1968, *Associate in Political Science and Urban Studies*  
*B.B.A., Miami; M.A., Rutgers*
- Daniel Field, 1970, *Assistant Professor of History*  
*A.B., M.A., Ph.D., Harvard*
- Absent on leave, 1972-73.
- Barbara M. Fitts, 1969, *Instructor in Physical Education*  
*B.S., Boston*



Annette B. Fox, 1966, *Lecturer in Political Science*

*A.B., Ph.D., Chicago*

Richard M. Friedberg, 1968, *Associate Professor of Physics*

*A.B., Harvard; M.A., Ph.D., Columbia*

*Absent on leave, 1972-73.*

Patrick X. Gallagher, 1965, *Professor of Mathematics*

*A.B., Harvard; Ph.D., Princeton*

*Absent on leave, Spring Term.*

Serge Gavronsky, 1960, *Associate Professor of French*

*A.B., M.A., Ph.D., Columbia*

Renée Geen, 1956, *Associate Professor of French*

*A.B., Brooklyn; M.A., Wisconsin; Ph.D., Columbia*

Sandra Genter, 1961, *Associate in Physical Education*

*A.B., Wisconsin; M.A., Columbia*

Marion Hamilton Gillim, 1952, *Professor of Economics*

*A.B., Mount Holyoke; M.A., Ph.D., Columbia*

*Absent on leave, Spring Term.*

Jean A. Gooch, 1964, *Associate Professor of Economics*

*A.B., California; M.A., Ph.D., Columbia*

Patricia Albjerg Graham, 1965, *Professor of Education*

*B.S., M.S., Purdue; Ph.D., Columbia*

*Absent on leave, 1972-73.*

Tatiana Greene, 1946, *Associate Professor of French*

*Candid. en Droit, Brussels; M.A., Ph.D., Columbia*

Richard F. Gustafson, 1965, *Professor of Russian*

*A.B., Yale; Ph.D., Columbia*

*Absent on leave, Spring Term.*

Danielle Haase-Dubosc, 1962, *Assistant Professor of French*

*A.B., Barnard; M.A., Ph.D., Columbia*

Elizabeth Hardwick, 1965, *Adjunct Associate Professor of English*

*A.B., M.A., Kentucky*

Anthony G. Henderson, 1964, *Assistant Professor of English*

*A.B., Harvard; B.A., Cambridge; Ph.D., Columbia*

Kenneth H. Janes, 1961, *Associate Professor of English and Director of Minor Latham Playhouse*

Peter H. Juviler, 1964, *Associate Professor of Political Science*

*B.E., M.E., Yale; M.A., Ph.D., Columbia*

Edward J. King, 1946, *Professor of Chemistry*

*A.B., State University of Iowa; Ph.D., Yale*

Grace W. King, 1960, *Lecturer in Chemistry*

*A.B., Maine; Ph.D., Yale*

- Ruth M. Kivette, 1952, *Associate Professor of English*  
*A.B., Barnard; M.A., Ph.D., Columbia; B.D., Union Theological*  
*Seminary*
- Morton Klass, 1965, *Professor of Anthropology*  
*A.B., Brooklyn; Ph.D., Columbia*
- Susan Koslow, 1972, *Instructor in Art History*  
*A.B., Barnard; M.A., New York University*
- Stephen E. Koss, 1966, *Professor of History*  
*A.B., M.A., Ph.D., Columbia*  
 Absent on leave, 1972-73.
- John Kouwenhoven, 1946, *Professor of English*  
*A.B., Wesleyan; M.A., Ph.D., Columbia*  
 Absent on leave, Autumn Term.
- Jacqueline I. Kroschwitz, 1968, *Assistant Professor of Chemistry*  
*B.S., Ursinus; Ph.D., Pennsylvania*
- Maire S. Kurrik, 1968, *Assistant Professor of English*  
*A.B., Vassar; Ph.D., Harvard*
- Polykarp Kusch, 1962, *Professor of Physics*  
*B.S., Case Institute; M.S., Ph.D., Illinois; Nobel Laureate; Sc.D.*
- Patricia H. Labalme, 1961-64; 1965, *Lecturer in History*  
*A.B., Bryn Mawr; M.A., Ph.D., Radcliffe*
- John F. Lad, 1971, *Instructor in Philosophy*  
*A.B., Case Western Reserve*
- Sue Howard Larson, 1965, *Associate Professor of Philosophy*  
*A.B., Ph.D., Stanford*
- Gordana Lazarevich, 1969, *Assistant Professor of Music*  
*M.S., Juilliard; Ph.D., Columbia*
- Marina Ledkovsky, 1969, *Assistant Professor of Russian*  
*Ph.D., Columbia*
- Ethna Lehman, 1968, *Assistant Professor of Sociology*  
*A.B., College of New Rochelle; M.A., Fordham*
- Lydia H. Lenaghan, 1962, *Associate Professor of Greek and Latin*  
*A.B., Barnard; M.A., Ph.D., Bryn Mawr*
- Linda Lerner, 1968, *Instructor in Physical Education*  
*B.S., Skidmore; M.A., Columbia*
- Cynthia B. Lloyd, 1970, *Assistant Professor of Economics*  
*A.B., Bryn Mawr; M.A., Ph.D., Columbia*
- Maristella de Panizza Lorch, 1951, *Professor of Italian*  
*Dott. in Lett. e Filos, Rome*
- Julia L. Makarushka, 1971, *Assistant Professor of Sociology*  
*A.B., LeMoyne; Ph.D., Columbia*
- Joseph L. Malone, 1967, *Associate Professor of Linguistics*  
*A.B., M.A., Ph.D., California*



- Joseph Masheck, 1971, *Instructor in Art History*  
A.B., A.M., Columbia
- Edith Mason, 1956, *Associate in Physical Education*  
B.S., Winthrop; M.S., Louisiana State
- Barbara Mates, 1962, *Assistant Professor of Psychology*  
A.B., M.A., Brooklyn; M.A., Ph.D., Columbia
- Alexander R. Mazziotti, 1970, *Assistant Professor of Chemistry*  
B.S., Seton Hall; Ph.D., Pennsylvania State
- Robert A. McCaughey, 1969, *Assistant Professor of History*  
A.B., Rochester; M.A., North Carolina; Ph.D., Harvard  
Absent on leave, 1972-73.
- Elisabeth McLaughlin, 1970, *Instructor in German*  
B.S., M.A., Columbia
- John Meskill, 1960, *Professor of Chinese and Japanese*  
A.B., Harvard; Ph.D., Columbia  
Absent on leave, 1972-73.
- Gladys Meyer, 1948, *Professor of Sociology*  
A.B., Wellesley; Ph.D., Columbia
- Deborah D. Milenkovitch, 1965, *Associate Professor of Economics*  
A.B., Radcliffe; Ph.D., Columbia
- Barbara S. Miller, 1968, *Associate Professor of Oriental Studies*  
A.B., Barnard; M.A., Columbia; Ph.D., Pennsylvania
- Ellen Moers, 1968, *Adjunct Associate Professor of English*  
A.B., Vassar; M.A., Radcliffe; Ph.D., Columbia  
Absent on leave, 1972-73.
- Joann Ryan Morse, 1957, *Associate Professor of English*  
A.B., Vassar; M.A., Yale
- Mary Mothersill, 1963, *Professor of Philosophy*  
A.B., Toronto; M.A., Ph.D., Radcliffe
- Onora S. Nell, 1970, *Assistant Professor of Philosophy*  
B.A., Oxford; Ph.D., Harvard
- Richard A. Norman, 1954, *Associate Professor of English*  
A.B., George Washington; M.A., Ph.D., Columbia
- Barbara Novak, 1958, *Professor of Art History*  
A.B., Barnard; M.A., Ph.D., Radcliffe
- Dorothea Nyberg, 1968, *Associate Professor of Art History*  
A.B., Toronto; M.A., Ph.D., New York University
- Brian O'Byrne, 1970, *Assistant Professor of Mathematics*  
Ph.D., Cornell
- Maria March de Orti, 1965-67; 1968, *Assistant Professor of Spanish*  
A.B., California; M.A., Washington; Ph.D., Columbia

- Donald Pace, 1968, *Instructor in English*  
A.B., Washington; M.A., Columbia
- Elaine H. Pagels, 1970, *Assistant Professor of Religion*  
A.B., M.A., Stanford; Ph.D., Harvard
- Remington P. Patterson, 1955, *Associate Professor of English*  
A.B., M.A., Ph.D., Yale
- Thomas B. Perera, 1966, *Assistant Professor of Psychology*  
A.B., M.A., Ph.D., Columbia
- Frederick G. Peters, 1970, *Assistant Professor of German*  
A.B., Pennsylvania; M.A., Columbia; B.Litt., Oxford; Ph.D., Cambridge
- Marion R. Philips, 1945-55; 1958, *Assistant Professor of Physical Education*  
A.B., Hunter; M.A., Columbia
- Randolph D. Pope, 1969, *Instructor in Spanish*  
*Lic. en Leng. y Lit. Espanola Universidad Catolica de Valparaiso*
- Anne Lake Prescott, 1959-62; 1963, *Assistant Professor of English*  
A.B., Barnard; M.A., Ph.D., Columbia
- Basil Rauch, 1941, *Professor of History*  
A.B., Notre Dame; Ph.D., Columbia
- Inez Smith Reid, 1969-70; 1971, *Associate Professor of Political Science*  
A.B., Tufts; LL.B., Yale; M.A., California; Ph.D., Columbia  
Absent on leave, Autumn Term.
- Hermine Riffaterre, 1961, *Assistant Professor of French*  
A.B., Hunter; M.A., Columbia; B. ès L., Toulouse; Ph.D., Columbia
- Donald D. Ritchie, 1948, *Professor of Biology*  
A.B., B.S., Furman; M.A., Ph.D., North Carolina  
Absent on leave, Spring Term.
- Paul Ritterband, 1970, *Assistant Professor of Sociology*  
A.B., Yeshiva; Ph.D., Columbia
- David A. Robertson, Jr., 1940, *Millicent Carey McIntosh Professor of English*  
A.B., M.A., Ph.D., Princeton
- Jeanette Schlottman Roosevelt, 1951-58; 1962, *Associate Professor of Physical Education*  
B.S., M.A., Texas Woman's University
- Eleanor Rosenberg, 1953, *Professor of English*  
A.B., Barnard; M.A., Ph.D., Columbia  
Absent on leave, Spring Term.
- Jane H. Rosenthal, 1952-55; 1971, *Instructor in Art History*  
A.B., Douglass



Abraham Rosman, 1966, *Professor of Anthropology*  
*A.B., City University of New York; Ph.D., Yale*  
Absent on leave, 1972-73.

R. Christine Royer, 1965, *Instructor in English*  
*A.B., Western Maryland; M.A., Pennsylvania*

Paula G. Rubel, 1965, *Associate Professor of Anthropology*  
*A.B., Hunter; Ph.D., Columbia*  
Absent on leave, 1972-73.

Susan R. Sacks, 1971, *Assistant Professor of Education and Psychology*

*A.B., Northwestern; M.A., Western Reserve*

Gertrud M. Sakrawa, 1952, *Associate Professor of German*  
*M.A., Columbia; Ph.D., Vienna, Columbia*

John E. Sanders, 1969, *Professor of Geology*  
*A.B., Ohio Wesleyan; Ph.D., Yale*

Anatol K. Saprnow, 1966, *Associate in Russian*  
*Russian Gymnasium, Belgrade*

Marianna Greene Saprnow, 1967, *Instructor in Russian*  
*Russian Gymnasium, Munich*

Raymond J. Saulnier, 1938, *Professor of Economics*  
*B.S., Middlebury; M.A., Tufts; Ph.D., Columbia; LL.D., Middlebury, Babson Institute*  
Absent on leave, Autumn Term.

Sylvie Sayre, 1969, *Instructor in French*  
*Agrégée de l'Université*

James A. Schmid, 1970, *Instructor in Biology*  
*A.B., Columbia; M.A., Chicago*

Bernice Segal, 1958, *Associate Professor of Chemistry*  
*A.B., Radcliffe; Ph.D., Columbia*

Mirella d'Ambrosio de Servodidio, 1964, *Associate Professor of Spanish*  
*A.B., Barnard; M.A., Ph.D., Columbia*  
Absent on leave, Spring Term.

Ann C. Sheffield, 1969, *Instructor in Greek and Latin*  
*A.B., Smith; M.A., Stanford*

Maurice Z. Shroder, 1965, *Professor of French*  
*B.S., Northwestern; M.A., Ph.D., Harvard*

Garrett A. Smith, Jr., 1970, *Instructor in Geography*  
*A.B., Rochester; M.A., Harvard*

Lynda D. Snead, 1971, *Instructor in French*  
*A.B., Skidmore; M.A., Columbia*

John B. Snook, 1968, *Assistant Professor of Religion*  
*A.B., Harvard; B.D., Union Theological Seminary; Ph.D., Columbia*

Domna Callimanopulos Stanton, 1962, *Assistant Professor of French*

*A.B., Wellesley; M.A., Ph.D., Columbia*

*Absent on leave, Autumn Term.*

Catharine R. Stimpson, 1963, *Assistant Professor of English*

*A.B., Bryn Mawr; B.A., Cambridge; Ph.D., Columbia*

*Absent on leave, Autumn Term.*

Howard M. Teichmann, 1946, *Adjunct Professor of English*

*A.B., Wisconsin*

*Absent on leave, Autumn Term.*

Patricia Terry, 1958, *Lecturer in French*

*A.B., Wellesley; M.A., Ph.D., Columbia*

Janice Farrar Thaddeus, 1956, *Assistant Professor of English*

*A.B., Barnard; M.A., Ph.D., Columbia*

Eleanor M. Tilton, 1950, *Professor of English*

*A.B., Mount Holyoke; M.A., Boston; Ph.D., Columbia*

*Absent on leave, Autumn Term.*

Zoya A. Trifunovich, 1959, *Associate in Russian*

*B.S., M.A., Columbia*

Margarita Ucelay, 1943, *Professor of Spanish*

*Bach. Instituto-Escuela de Madrid; M.A., Ph.D., Columbia*

*Absent on leave, Autumn Term.*

Barry Ulanov, 1951, *Professor of English*

*A.B., Ph.D., Columbia; Litt.D., Villanova*

Joan E. Vincent, 1968, *Associate Professor of Anthropology*

*B.Sc., London School of Economics; M.A., Chicago; Ph.D., Columbia*

Frederick E. Warburton, 1963, *Associate Professor of Biology*

*B.Sc., M.Sc., Ph.D., McGill*

Marcia L. Welles, 1970, *Assistant Professor of Spanish*

*A.B., Barnard; M.A., Middlebury; Ph.D., Columbia*

Suzanne F. Wemple, 1966, *Associate Professor of History*

*A.B., California; M.L.S., Ph.D., Columbia*

Katherine E. Wilcox, 1971, *Associate in Education*

*A.B., City College of New York*

Chilton Williamson, 1942, *Professor of History*

*A.B., M.A., Ph.D., Columbia*

George Woodbridge, 1960, *Professor of History*

*A.B., M.A., Columbia; Ph.D., Wisconsin*

Richard Youtz, 1937, *Professor of Psychology*

*A.B., Carleton; Ph.D., Yale*

Leonard Zobler, 1955, *Professor of Geography*

*B.S., M.S., Washington State; Ph.D., Columbia*

Forrest L. Abbott, 1953, *Treasurer and Controller*

*B.S., Southwest Missouri State Teachers; M.A., Ed.D., Columbia*



Mary Helen McMahon, 1969, *Registrar*  
*B.S., M.A., Saint Louis*  
 Robert B. Palmer, 1967, *Librarian*  
*M.A., Middlebury; M.S., Simmons*  
 Natalie Sonevitsky, 1959, *Reference Librarian*  
*A.B., New Rochelle; M.S., Columbia*

## Faculty Emeriti

William Haller, 1909-1950, *Professor Emeritus of English*  
*Ph.D., L.H.D.*  
 Elizabeth Faulkner Baker, 1919-1952, *Professor Emeritus of*  
*Economics*  
*Ph.D.*  
 Hugh Wiley Puckett, 1916-1953, *Professor Emeritus of German*  
*Ph.D.*  
 Helen R. Downes, 1933-1960, *Professor Emeritus of Chemistry*  
*Ph.D.*  
 Amelia A. de del Rio, 1930-1962, *Professor Emeritus of Spanish*  
*Ph.D.*  
 Millicent C. McIntosh, 1947-1962, *President Emeritus*  
*Ph.D., LL.D., Litt.D., L.H.D.*  
 Margaret Holland, 1926-1964, *Professor Emeritus of Physical*  
*Education*  
*M.A.*  
 Thomas P. Peardon, 1923-1965, *Professor Emeritus of Political*  
*Science*  
*Ph.D.*  
 W. Cabell Greet, 1926-1966, *McIntosh Professor Emeritus of*  
*English*  
*Ph.D., Litt.D.*  
 Esther Greene, 1944-1967, *Librarian Emeritus*  
*A.B., B.S.*  
 Lucyle Hook, 1948-1967, *Professor Emeritus of English*  
*Ph.D.*  
 Marion Lawrence, 1929-1967, *Professor Emeritus of Art History*  
*Ph.D.*  
 René Albrecht-Carrié, 1945-1969, *Professor Emeritus of History*  
*Ph.D.*  
 Eugenio Florit, 1945-1969, *Professor Emeritus of Spanish*  
*D. en D.*  
 Virginia D. Harrington, 1942-1969; *Professor Emeritus of*  
*History*  
*Ph.D.*  
 Jean T. Palmer, 1946-1969, *General Secretary Emeritus*  
*A.B.*

Henry A. Boorse, 1937-1970, *Professor Emeritus of Physics and Dean Emeritus of the Faculty*  
Ph.D.

Julius S. Held, 1936-1970, *Professor Emeritus of Art History*  
Ph.D.

Mirra Komarovsky, 1934-1970, *Professor Emeritus of Sociology*  
Ph.D.

Emma Dietz Stecher, 1945-1971, *Professor Emeritus of Chemistry*  
Ph.D.

Theodor H. Gaster, 1966-1972, *Professor Emeritus of Religion*  
Ph.D., D.D., L.H.D., Litt.D.

**Visiting  
Faculty**

Alvin L. Atkins, 1966, *Adjunct Associate Professor of Psychology*  
A.B., Yale; M.A., Ph.D., Columbia

Lanny Fields, 1968, *Adjunct Assistant Professor of Psychology*  
A.B., Ph.D., Columbia

Adelbert H. Jenkins, 1969, *Adjunct Assistant Professor of Psychology*  
A.B., Antioch; M.A., Ph.D., Michigan

Alpheus Mason, 1972, *Robb Professor of Political Science*  
A.B., Dickinson; M.A., Ph.D., Princeton

John L. Mish, 1970, *Adjunct Professor of Religion*  
Ph.D., Berlin

Brian O'Doherty, 1970, *Adjunct Professor of Art History*  
M.B., M.C.H., D.P.H., University College, Dublin; M.Sc., Harvard

Albert W. Sadler, 1970, *Adjunct Professor of Religion*  
A.B., Hobart; M.A., Ph.D., Columbia-Union Theological Seminary

Robert Skidelsky, 1972, *Robb Lecturer in History*  
D. Philo., Oxford

**Other Officers  
of Instruction**

Victoria F. Barr, 1967, *Instructor (Part-time) in Art History*  
B.F.A., Yale

Vilma Bornemann, 1971, *Instructor (Part-time) in Spanish*  
A.B., Barnard; M.A., Columbia

Vassilios Christides, 1971, *Lecturer in Modern Greek*  
M.A., U.C.L.A.; Ph.D., Princeton

Jane Grace, 1967-69; 1971, *Instructor (Part-time) in French*  
A.B., Emory; M.A., Columbia

Ralph D. Grishman, 1971, *Instructor (Part-time) in Mathematics*  
A.B., Columbia

Janet C. Hannigan, 1971, *Assistant Professor (Part-time) of Political Science*  
A.B., North Carolina; Ph.D., Columbia



- Walter A. Jones, 1972, *Associate in Environmental Conservation and Management*  
B.S., Bluffton
- Bona Kostka, 1962-63; 1969, *Instructor (Part-time) in Medieval and Renaissance Studies*  
Dott. in Lett., Rome
- Anya Luchow, 1970, *Instructor (Part-time) in Russian*  
A.B., Barnard
- Frank A. Moretti, 1971, *Associate in Education*  
A.B., Bonaventure; M.A., Columbia
- Dennis B. Parichy, 1969, *Technical Director, Minor Latham Playhouse*  
B.S., Northwestern U.
- Jane L. Price, 1972, *Instructor (Part-time) in Oriental Studies*  
A.B., Barnard; M.A., Harvard
- Yvan Quintin, 1972, *Lecturer in Medieval and Renaissance Studies*  
Agrégé de l'Université
- Don Reynolds, 1972, *Instructor (Part-time) in American Studies*  
A.B., M.A., Columbia
- Gino Rizzo, 1971, *Lecturer in Comparative Literature*  
D. Litt., Padua
- Sister Mary Elizabeth, 1969-70; 1972, *Lecturer in History*  
B.A., M.A., Buffalo; Ph.D., Chicago
- Janet Soares, 1968, *Instructor (Part-time) in Physical Education*  
B.S., Juilliard
- Walter Sorell, 1969, *Lecturer in English and Music*  
A.B., M.F.A., Columbia
- Beverly M. Spatt, 1971, *Associate in Geography*  
A.B., Pembroke; M.A., New York University
- Quandra P. Stadler, 1970, *Associate in English*  
A.B., Antioch
- Sandra Stingle, 1967, *Instructor (Part-time) in Psychology*  
A.B., Barnard
- Toni Thalenberg, 1972, *Instructor (Part-time) in Education*  
A.B., Columbia
- Adja Yunkers, 1970, *Visiting Artist*
- Judith Zacek, 1972, *Lecturer in History*  
A.B., Radcliffe, Ph.D., Columbia

# Officers of Administration

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## Officers of Administration

Martha Peterson, Ph.D., L.H.D., LL.D., *President of Barnard College and Dean in the University*  
 LeRoy C. Breunig, Ph.D., *Dean of the Faculty and Professor of French*  
 Barbara S. Schmitter, M.A., *Dean of Studies and Associate Professor of Psychology*  
 Forrest L. Abbott, Ed.D., *Treasurer and Controller*

## Office of the President

Henry A. Boorse, Ph.D., *Assistant to the President and Professor Emeritus of Physics*  
 Jane Moorman, Ph.D., *Assistant to the President*  
 Dorothy H. Hefferline, M.A., *Administrative Assistant*  
 Novella I. Landau, *Secretary to the President*

## Office of the Dean of the Faculty

R. Christine Royer, M.A., *Associate Dean of the Faculty*  
 Virginia Shaw, A.B., *Director of Institutional Studies and Secretary to the Faculty*  
 Julie Marsteller, A.B., *College Archivist*  
 Mary Ringwald, *Faculty Secretary*

## Office of the Dean of Studies

Marjorie H. Dobkin, M.A., *Associate Dean of Studies and Adviser to the Class of 1974*  
 Grace King, Ph.D., *Adviser to the Class of 1973 and Pre-Medical Adviser*  
 Bruce Feld, M.A., *Adviser to the Class of 1975*  
 Lynda Snead, M.A., *Adviser to the Class of 1975*  
 Marcia Welles, M.A., *Adviser to the Class of 1975*  
 Sandra Stingle, *Adviser to the Class of 1975*  
 Toby Berger, *Adviser to the Class of 1976*  
 Zoya Trifunovich, M.A., *Foreign Student Adviser*

## Office of the Treasurer and Controller

Helen Vanides, *Executive Assistant*

## Office of Admissions

Helen M. McCann, A.B., *Director*  
 Margaret Dykes Dayton, M.A., *Associate Director*  
 Anne G. Garonzik, A.B., *Assistant Director*

## Office of the Associate Alumnae

Nora L. Percival, A.B., *Director*

## Office of Buildings and Grounds

John G. Kiessling, *Manager of Plant and Operations*  
 Margaret V. O'Shea, *Supervisor of Building Services*  
 Alfonso Leverock, *Assistant Supervisor of Building Services*

## Office of the Bursar

Frances A. Barry, M.S., *Bursar*  
 Linda F. Mathison, B.S., *Assistant Bursar*  
 Violet Parnass, *Executive Assistant*



Office of College Activities	To be announced, <i>Director</i>
Development Office	Barbara V. Hertz, A.B., <i>Director</i> Eleanor Mintz, A.B., <i>Director, Barnard Fund</i> Janice C. Pries, A.B., <i>Director of Research</i> Jeannette Parks, <i>Records Administrator</i>
Financial Aid	Theodore P. Stock, M.A., <i>Director</i>
Food Services	Eleanor R. Smith, B.S., <i>Director</i> Audrey Bell, <i>Assistant Director</i>
Health Services	Harriette R. Mogul, M.D. <i>Director</i> Lestra M. Carpé, M.D., <i>Staff Internist</i> Steven Boris, M.D., <i>Consulting Pediatrician</i> Antonio Calanog, M.D., <i>Consulting Gynecologist</i> Camillo L. Gugliucci, M.D., <i>Consulting Gynecologist</i> Zira De Fries, M.D., <i>College Psychiatrist</i> Barbara Gibbs, <i>Consulting Psychiatrist</i> Lilo R. Grothe, Ph.D., <i>Psychiatric Counselor</i> Denise Saks, J.S.D., M.A., M.S., <i>Psychiatric Counselor</i> Lela Anderson, R.N., <i>Nurse</i> Beatrice G. Tucker, R.N., <i>Nurse</i>
Language Laboratory	Ersi L. Breunig, <i>Director</i>
Library	Robert B. Palmer, M.A., M.S., <i>Librarian</i> Natalie Sonevytsky, M.S., <i>Reference Librarian</i> Elizabeth M. Corbett, M.S., <i>Circulation Librarian</i> Patricia K. Ballou, A.B., B.S., <i>Technical Services Librarian</i> Mary J. Kelly, M.S., <i>Order Librarian</i> Lynne M. Brody, M.S., <i>Reserve Librarian</i> Stephanie M. Krstulovic, <i>Technical Services Librarian</i>
Office Services	Winifred Price, <i>Director</i> Myrtle Tate, <i>Assistant to the Director</i>
Office of Placement and Career Planning	Jane S. Gould, M.A., <i>Director</i> Lynn H. Stephens, M.A., <i>Assistant Director</i> Hilary F. Knatz, M.A., <i>Administrative Assistant</i>
Office of Public Relations	Sarah W. Johnson, M.A., <i>Director</i> Sarah E. Button, A.B., <i>Assistant Director</i>
Office of Purchasing	Mary Bane, <i>Manager of Purchasing</i>
Office of the Registrar	Mary Helen McMahon, M.A., <i>Registrar</i> Doris Campbell, A.B., <i>Assistant Registrar</i>

# Officers of Administration

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## *Office of Residence*

Blanche E. Lawton, M.A., *Director*

Phyllis D. Zadra, M.S., *Resident Director, Residence Halls*

Joanne Colozzi, *Resident Director, Plimpton Hall*

James Weikart, *Resident Director, 600, 616, 620*

John Finn, *Coordinator of Residence Services*

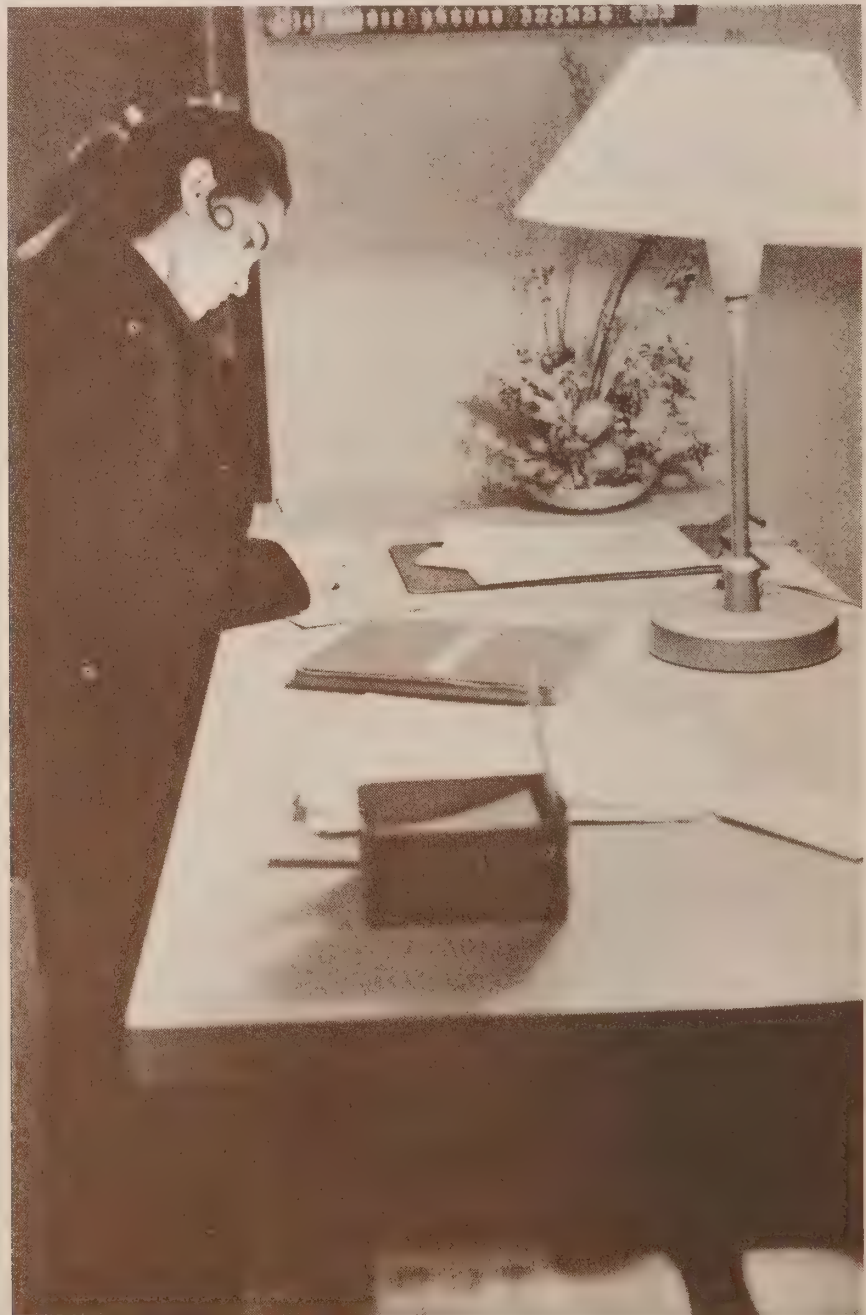
Monica Smith, *Administrative Assistant*

## *Office of Safety and Security*

Raymond E. Boylan, *Director*

## *Women's Center*

Mary Scotti, A.B., *Administrative Assistant*





## **Barnard's History**

Barnard College was among the pioneers in the late nineteenth century crusade to make higher education available to young women. The history of its achievement is an integral part of the history of Columbia University.

The University had its origin in a royal charter, granted in 1754 by George II, creating King's College. Its operations were interrupted during the Revolutionary War when its buildings were requisitioned by the Continental Armies, but it was reopened in 1784 as Columbia College and, in 1896, was designated a university.

Barnard College grew out of the idea, first proposed by Columbia's tenth president, Frederick A. P. Barnard, that young women be admitted to Columbia. Initially ignored, the idea was developed by President Barnard until it led to the creation of a "Collegiate Course for Women." Under the new plan highly qualified women were authorized to follow a prescribed course leading ultimately to a Columbia degree, but no provision was made for where and how they were to pursue their studies. Destined to fail, this arrangement was abandoned six years later when Columbia's trustees agreed to the establishment of an affiliated college for women. A provisional charter and the promise of funds were secured, and Barnard College was named in honor of its earliest and most persistent advocate.

In October 1889, the first Barnard class met in a rented brown-stone house at 343 Madison Avenue with fourteen students enrolled in the School of the Arts, twenty-two "specials" enrolled in science because they lacked the entrance requirements in Greek, and a faculty of six.

Nine years later Barnard moved to its present site on Morning-side Heights, and in 1900 was incorporated in the educational system of Columbia University with provisions which at that time were unique among women's colleges: it was to be governed by its own Trustees, Faculty, and Dean, and was responsible for its own endowment and plant, while sharing the instruction, the library, and the degrees of a university.

## **Barnard Today**

In contrast to the pioneer days, Barnard today has a teaching staff of almost 200 men and women: outstanding scholars whose primary concern is the education of the undergraduate students at the College, and many of whom bring an added vitality to their teaching from their professional activities outside the classroom. From the original fourteen matriculated students, enrollment has increased to about 1,950; since 1893

Columbia has awarded its degree to 16,686 Barnard students. The original pledges of support have expanded to current endowment funds of \$18,416,000.

## **The Curriculum**

Within the University Barnard's corporate identity is maintained as an independent college for women. The curriculum offers the undergraduate opportunity to study the liberal arts and sciences.

Specific requirements for the degree are outlined on pages 36-39. Assistance in planning her individual course of study is given by the student's class adviser, a member of the teaching staff who supervises the work of the freshman and the sophomore years.

At the end of this period, each student chooses her major field. During the junior and senior years her major adviser guides advanced study in the area of concentration and other phases of the college work. Twenty-five departments offer major programs and seven interdepartmental majors are also available.

Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into small groups for conference and discussion. Laboratory work in the sciences is conducted with the most modern laboratory equipment. There are opportunities for independent work and students may also be invited to participate in the research projects of members of the Faculty.

## **Special Concerns About the Education of Women**

In keeping with its tradition, Barnard is concerned with the problems and potentialities of women today. Work is going forward in many areas: the building of a special library and archives, career counseling, political and social activities on behalf of women, and curricular offerings. Such offerings are available in the departments of Economics, English, French, History, Oriental Studies, Sociology, and Spanish. An interdepartmental course is also being given by members of the departments of Anthropology, Biological Sciences, Psychology, and Sociology.

## **The Campus**

The campus occupies four acres of urban property along Broadway between 116th and 120th Streets. At the southern end of the campus, three residence buildings, Brooks, Hewitt, and Helen Reid Halls, face Altschul Court, a landscaped quadrangle.

Barnard Hall is just north of the open courtyard and contains seminar rooms, classrooms, and faculty offices, as well as a gym, a swimming pool, and dance studios. The College Parlor on the third floor is used for meetings and small social events.



Adele Lehman Hall is a modern five-story building containing the Wollman Library, faculty offices and classrooms. The library has over 119,000 volumes in an open shelf arrangement on three floors. This collection of carefully selected books is designed to cover curriculum requirements as well as to provide opportunities for independent work in many fields. A collection of approximately 3,500 music and spoken records, a large selection of periodicals and journals, photographs and art reproductions housed in a separate room supplement and strengthen the book collection. There are ample listening facilities for records and an audio-visual studio and control room for the recording of tapes and the use of other equipment. The reading areas contain a number of individual study carrels, many of which overlook a lawn surrounded by small trees and shrubs. Barnard students also have access to the University's Butler Library of almost four million volumes, one million manuscripts and fifty thousand periodical listings. The other twenty-nine libraries of the University are also available for additional research.

Helen Goodhart Altschul Hall and the Millicent McIntosh Center, which were dedicated jointly in November 1969, face each other across an open plaza. The fourteen stories of Altschul Hall are devoted primarily to the sciences but also house the Herbert H. Lehman Auditorium on the first floor, and a language laboratory on the fourth. The laboratory, which contains 60 booths, is used by both Barnard and Columbia language students. Headquarters for student activities, a snack bar and a lounge are located in the McIntosh Center. Student mailboxes are there as well as music practice rooms, recreation and television rooms, bowling alleys, an art exhibit area, and the Jean T. Palmer Room, furnished with a conference table and chairs.

Milbank Hall occupies the northern extreme of the campus and houses administrative and faculty offices; classrooms; a greenhouse; and the Minor Latham Playhouse, a small well-equipped modern theatre. The French, German, and Spanish Departments maintain social and reading rooms in Milbank Hall.

Columbia University is directly across Broadway from the Barnard campus. Off campus, but in the immediate neighborhood, Barnard maintains other residence halls, including: 600, 616 and 620 West 116th Street, three apartment buildings owned by the College and containing suites accommodating five to six girls each; and Plimpton Hall, completed in 1968, which

houses 280 students in apartment style units. Each Plimpton resident lives in a single room in a five-room suite with a central kitchen and bath.

Barnard Camp is a 20 acre tract in Westchester County about 35 miles from New York City. The Camp and its rustic lodge, Holly House, are used by the College for recreational and educational purposes.

## **Student Life**

Barnard's student population is cosmopolitan in nature. While one third of the students have families within commuting distance, the others come from nearly every state and some twenty-five foreign countries.

The students represent diversity in background and training; and a mingling of economic, regional, and cultural strains finds expression in the life of the campus.

Every Barnard student is a member of the Undergraduate Association, which sponsors extracurricular activities reflecting current interests: the college newspaper, the literary magazine, dramatic groups, political and religious organizations, and pre-professional and departmental clubs. Cooperation between Barnard and Columbia groups is common. Many activities, such as the University's chorus and its orchestra, its radio station, and a community service program enlist members from both campuses.

During the past four years the structure of Barnard's student government has undergone fundamental revision, culminating in the development of twelve tripartite college committees. Students, faculty, and administrators serving on these committees share responsibility for policy decisions in the areas of curriculum, housing, financial aid, orientation, and the library.

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life and is administered by the student Academic Council. A Judicial Council of undergraduates, faculty and staff, recommends disciplinary action for non-academic offenses.

Religious organizations and activities with headquarters on the Columbia campus at Earl Hall encompass nearly every faith and are open to all students. The Thursday Noon Meeting at Barnard provides a weekly forum for discussion of a wide range of contemporary issues. Student artists with a diversity of talents and interests collaborate to produce the free-wheeling Spring Festival.



The Recreation and Athletic Association sponsors many campus activities, including tennis, basketball, water ballet, fencing, and modern dance, as well as some athletic events with other colleges.

**New York  
is Barnard's  
Laboratory**

More than fifty years ago, Nicholas Murray Butler, one of Columbia's great presidents, observed, "New York is intensely cosmopolitan and contact with its life for a short time during the impressionableness of youth is in itself a liberal education." The city is an extension of the campus, utilized by every department to narrow the gap between learning and living. Barnard is a university college in an international city, and today the curriculum affirms and encourages precise and graphic use of its vast metropolitan laboratory.



Since entering classes are limited in size, admission to Barnard College is on a selective basis. The Committee on Admissions endeavors to choose candidates who seem most receptive to the discipline and challenge of a liberal arts education. Each applicant is considered in the light of her past performance, the qualities of mind and spirit which insure her growth as an individual, and her ability to contribute to the growth of those with whom she will associate in college and throughout her adult life.

The College believes it is also desirable for the student body to represent a stimulating variety of schools, both public and independent, from all parts of the United States and from abroad. Students who can visit the college for an interview should plan to do so in the fall of their senior year, or in the late spring of the junior year; others may arrange interviews with Barnard Area Representatives whose names are listed on pages 247-250.

**Admission  
to the  
Freshman  
Class**

Application for admission to the freshman class should be made before January 1 of the year of entrance. It is advisable, however, to apply by the end of the junior year or the fall of the senior year. Application forms may be obtained by writing to the Director of Admissions.

A nonrefundable fee of \$15 must accompany each application. Checks or money orders must be in U.S. funds drawn on a U.S. bank, and made payable to Barnard College.

Students are admitted to the freshman class in September. They must be at least fifteen years of age, and should present the following credentials:

Evidence of good character, which is obtained from confidential reports from the applicant's secondary school principal and teachers and, if possible, through a personal interview at the College.

Evidence of sound health, to be submitted as soon as the applicant has been accepted, on forms provided by the Office of Admissions.

Evidence of intellectual ability and achievement, which is reported by the secondary school to the College, and is also demonstrated by the required College Entrance Examination Board tests.

Candidates for admission must offer a college preparatory program from an approved secondary school or should have equivalent education representing a four-year course of study. Academic preparation for admission should be based on the



requirements for the A.B., or liberal arts, degree. A recommended program would comprise four years of work in English; three years in mathematics; four years in a foreign language (ancient or modern); one year in a science with laboratory; and one year in history. An introduction to a second foreign language is generally useful. The remainder of the program would include additional work in the aforementioned subjects with the possible addition of music and art.

The Committee on Admissions is willing to consider the applications of students whose preparation may vary from the usual pattern but whose records give evidence of genuine intellectual ability and interest.

Every candidate for admission to the freshman class is required to take the College Entrance Examination Board Scholastic Aptitude Test and three Achievement Tests. The latter must be taken in (1) English composition, (2) a foreign language, and (3) history, science, or mathematics. The Scholastic Aptitude Test must be taken in November, December or January of the senior year in high school. Achievement Tests in continuing subjects (English, foreign languages, mathematics, etc.) must be taken in December or January of the senior year. Candidates must arrange to take the foreign language reading test in January of the senior year, or the listening-reading test in May. Achievement Tests in one-year subjects or those completed in the junior year may be taken in May of the junior year. It is the student's responsibility to direct the College Entrance Examination Board to send official test scores to the Office of Admissions.

**Early  
Decision  
Plan**

In order to alleviate some of the problems arising from multiple applications, Barnard, with the other members of the Seven College Conference, has agreed to take action in the fall of the senior year on applications of well-qualified students who have made their choice of a college by that time. Students wishing to apply under this plan should signify their intention when they request application papers. They must be certified by their school as having filed only one application.

Single-choice candidates for Barnard admission should send their application to the Office of Admissions, Barnard College, New York, N.Y. 10027, before November 1 of the senior year. Applications must be accompanied by the \$15 application fee. Late in November Barnard will send to single-choice applicants letters of admission or rejection, or, in doubtful cases, postpone-

ment of decision until the customary date in the spring. Each applicant will be considered on the basis of (1) the recommendation of her school principal or counselor, (2) her three-year record at school, and (3) the results of the required College Board Scholastic Aptitude Test and the three Achievement Tests taken in her junior year in English composition, a foreign language, and history, science, or mathematics.

The successful candidate will be expected to complete her senior year satisfactorily and to submit a record of that year's work. She will not be asked to repeat any College Board examinations. She must agree to pay to Barnard in January a deposit of \$100, if she is to be a commuting student, and \$150, if she is to be a resident student, to hold her place in the freshman class.

The candidate on whose application decision has been postponed will be given full and careful consideration in the spring. She will be asked to submit a record of her school work for the first half of her senior year and the results of senior College Board Scholastic Aptitude and Achievement Tests as additional evidence.

Candidates on whose credentials favorable action is not taken may file applications at other colleges after receiving their notification from Barnard.

**The College  
Entrance  
Examination  
Board Tests**

The College Entrance Examination Board will administer the following series of tests in 1972-73:

Saturday, November 4, 1972 (Scholastic Aptitude Test only)

Saturday, December 2, 1972 (Scholastic Aptitude and Achievement Tests)

Saturday, January 13, 1973 (Scholastic Aptitude and Achievement Tests)

Saturday, March 3, 1973 (Scholastic Aptitude and Achievement Tests)

Saturday, April 7, 1973 (Scholastic Aptitude Test only)

Saturday, May 5, 1973 (Achievement Tests only)

Saturday, July 14, 1973 (Scholastic Aptitude and Achievement Tests)

Candidates should write directly to the College Examination Board, Box 592, Princeton, New Jersey 08540, for the Bulletin of Information containing descriptions of the Scholastic Aptitude and Achievement Tests, directions for filing applications, and lists of examination centers. When requesting the application forms, candidates should state the month in which they wish to take the tests.



Residents of California, Oregon, Washington, Idaho, Montana, Wyoming, Utah, Colorado, Nevada, Arizona, New Mexico, Alaska, Hawaii, Australia, Mexico, and the Pacific Islands should write to the Pacific Coast Office of the Board, Berkeley, California 94701.

To facilitate the arrangements for the conduct of the tests, all applications should be filed as early as possible. The normal closing date for the receipt of applications in Princeton, New Jersey, or Berkeley, California, for candidates outside the United States, the Canal Zone, Canada, Mexico, and the West Indies is two months before the date of the examination; for all other candidates the closing date is approximately five weeks before the date of the examination. A penalty fee will be charged for applications received later than the normal closing date.

No applications received in Princeton or Berkeley later than two weeks before the examination date will be considered. Candidates may not register for the tests at the examination centers. Each application should be accompanied by the appropriate examination fee. Please refer to the College Board Handbook for information about deadlines and fees.

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges, in turn, will notify the candidates of the action taken on their applications for admission.

**Admission  
with  
Advanced  
Placement**

Students who have completed advanced work in secondary school and who present satisfactory scores on the Advanced Placement Tests of the College Entrance Examination Board may be placed in courses above the level of the freshmen year, at the discretion of the departments concerned.

Students with scores of 4 or better on the College Entrance Examination Board Advanced Placement Tests may be given credit toward the thirty-two course requirement for the degree, provided the Barnard departments concerned so recommend. Credit for advanced placement work will in no case be in excess of four semester courses. A petition for credit must be submitted to the Committee on Programs and Academic Standing.

**Admission of  
Transfer  
Students**

Barnard welcomes transfer students and each year accepts between one hundred and fifty and two hundred to the sophomore and junior classes. Application for acceptance with advanced standing should be submitted before May 15 for admission in September and before December 1 for admission in January.

Candidates should present a strong record of not less than one year's work at an accredited college, or foreign university, or institution of equivalent grade. In general, credit is given for courses taken at another college which are similar in content to those offered at Barnard. (See also page 39.)

The student should submit her formal application and the following credentials: her secondary school record, a recommendation from her principal and her college dean or class adviser, a complete and official transcript of her college work and a copy of the college catalogue in which the courses she has taken are clearly marked, and the results of the College Entrance Examination Board tests. A candidate will be asked to take the College Entrance Examination Board Scholastic Aptitude Test if she has not already done so. No definite credit for junior college work can be assigned until the student has had an opportunity to establish a satisfactory record at Barnard.

Acceptance is subject to receipt of a statement of honorable dismissal, which is a certificate of good character from an authorized college representative, a satisfactory final transcript, and the required health reports. If these credentials are not received, the student must postpone registration until after classes begin. There is an additional \$15 fee for lateness.

Seniors who are degree candidates at other colleges may apply for permission to complete their requirements at Barnard. Each applicant must present satisfactory college records and letters of approval from her Dean and her major adviser, and agree to comply with all Barnard regulations concerning attendance and course examinations.

## **Admission of Foreign Students**

The College is interested in the applications of qualified foreign students. Candidates are expected to take the Scholastic Aptitude Test given by the College Entrance Examination Board, if they can arrange to do so. (This test examines the student's ability to understand word relationships and to comprehend what is read, and the ability to understand and solve mathematical problems.) Freshmen candidates should also present the Achievement examination results. Requests for an examination center overseas should reach the Board, Box 592, Princeton, New Jersey 08540, two months prior to the dates listed on the previous pages.

Knowledge of the English language is essential for admission. It is recommended that applicants take the TOEFL, Test of English as a Foreign Language. Information about registration



should be obtained by writing to the TOEFL Program, Educational Testing Service, Princeton, New Jersey 08540. If the results of this examination cannot be presented, students whose native language is not English are required to take the American University Language Center Test. Arrangements for it should be made through the United States Consulate.

During the week of registration (September or January) all foreign students must take English placement tests in writing, aural comprehension, and speech. Failure to pass these tests will necessitate remedial courses in English at Columbia University, either without academic credit or with limited credit, depending on the level of the course and the grade obtained. No credit is assigned for other academic courses until the remedial work is successfully completed.

Limited financial aid is granted to qualified applicants. Admitted students should direct an inquiry to the nearest American Embassy concerning the possibility of securing a Fulbright travel grant. Employment during the first year here is not permitted. Official approval must be obtained from the Immigration and Naturalization Service for paid work after the first year.

Definite credit for study at foreign institutions is not assigned until a full year of satisfactory work has been completed at Barnard. It is hoped that the foreign student will return to her home country and utilize her education after completion of studies in the United States.

For information concerning the Medical Expense Policy which is obligatory for foreign students whose homes are outside the United States, please see page 222.

Candidates are urged to communicate with the Director of Admissions well in advance of the date they wish to enter, so that the College may be of assistance to them in making their plans.

**Readmission**

A student who has withdrawn from the College, or who has been on leave of absence, is not automatically readmitted. She should make application for readmission to the Director of Admissions. A nonrefundable fee of \$15 must accompany the application of any student who has not been granted a leave of absence by the Dean of Studies. Completed applications as well as all required credentials (e.g. medical reports, transcripts, recommendations) are due by December 1 for the Spring Term, and by May 15 for the Autumn Term.

**Academic  
Requirements  
for the  
A.B. Degree**

Requirements for the Bachelor of Arts degree are flexible and have been planned to serve as a framework for the study of various fields of human thought. They should provide a foundation in the liberal arts and sciences on which to base more intensive work in specific fields. All requirements must be completed within six years of the student's matriculation as a freshman. These requirements call for the completion of 32 semester courses and include the following:

*I. Basic*

English A. (Foreign students please refer to page 34.)  
One science (two semesters), with laboratory. See departmental statements for specific courses which fulfill the requirement.  
Foreign language. Competence in an ancient or modern foreign language. This requirement may be fulfilled either by passing an examination with a sufficiently high score, or by satisfactory completion of a designated course. (See the statement under the appropriate language department for further details.) For languages not offered at Barnard, the student should consult the Chairman of the Language and Literature Committee.

*II. General*

Completion of six semester courses outside the major department, selected from the following categories (no more than two courses in any single category may satisfy the requirement):

1. Art history; music
2. Literature in the language in which it was originally written
3. Philosophy; religion; Oriental Humanities V3399x-V3400y
4. History; Oriental Civilizations V3355x-V3356y
5. Anthropology; economics; geography; government; linguistics; sociology
6. Mathematics

*III. Major*

A major field is to be selected before the end of the sophomore year, consisting of eight or more courses, as prescribed by the department. Each department requires, as specified, a senior essay or a major examination or some equivalent demonstration of proficiency in the discipline. A major may be chosen in any one field, or in such combinations as are approved by the Committee on Programs and Academic Standing.

*IV. Physical  
Education*

Four terms required. Two terms in the freshman year and two additional terms.

**Satisfaction  
of Requirements  
by Examination**

At the discretion of the department involved, a student may take special examinations which, if successfully passed, offer exemption, without credit, from basic, general, and major requirements. Special examinations may also be taken to demonstrate preparation for admission to advanced courses. Further



details concerning such examinations are available in departmental offices. The purpose of these examinations is to allow the student a wider intellectual experience than would otherwise be possible during the four-year college course.

## Senior Scholar Program

The Senior Scholar Program allows especially qualified students to undertake a single project, with exemptions from all course and major requirements, in their senior year. The program is intended to meet the needs of those few students who come to the senior year with a record of unusual accomplishment in a specific area of scholarship, or in the practicing arts. A student with such qualifications should prepare a detailed proposal in conference with a faculty adviser who has agreed to direct her work. Application must be made to the department concerned and then to the Committee on Instruction, by midsemester of the second term of the junior year. At the conclusion of the junior year, the student should have completed all basic and general requirements for the degree.

## Experimental College

The Experimental College was begun in 1969 by students who believed that learning could best occur in a group, housed together and devoted to the study and practice of educational change. Students in the Experimental College have the opportunity to develop courses and projects that may be both an accompaniment of and a contrast to the existing college structure. In 1972-73, a committee of faculty members and students will assist the coordinator in screening proposals for group and individual projects, in helping to initiate projects, and in devising methods of assessing them. The number of students enrolled for credit in any term is limited to forty, of which approximately one-half will be resident members. See page 65 for further details about eligibility and credit.

## Residence

Students are expected to be registered for full-time work for four years. Requests for acceleration will be granted sparingly and only for reasons of weight. Normally, only 8 courses per year will count for credit, but students may elect to take 5 courses in any term. All count equally in determining the academic average. Permission to complete the work for the degree while registered *in absentia* may be granted under certain conditions on application to the Committee on Programs and Academic Standing.

## Grading System

Academic standing and eligibility for graduation are determined by the quantity and quality of the student's work. Quality of work is indicated by the following grades: A or A—, excellent;

B+, B, B-, good; C+, C, C-, fair; D, poor; F, failure, and P, passed without a specific grade.

A course is marked Incomplete (Inc.) if the student has filed with the Registrar the written permission of the instructor for the postponement of required work; Absent (Abs.) designates an absence from the final examination; the entry Y-C signifies that the grade on completion of the second term will apply to the first term as well; WD/F signifies withdrawal from a course without formal notification to the Registrar.

Pass-fail grades are recorded for all students in some courses and at the individual request of the student in courses for which letter-grades are normally assigned. The following regulations apply to pass-fail credit:

At least twenty-four of the thirty-two courses required for the degree must be assigned letter-grades.

No more than four pass-fail grades may be requested by any student during her enrollment at Barnard.

All courses in the major must be assigned letter-grades.

Grades of P are not included in the grade point average.

No limitation is placed on the number of pass-fail grades which may be recorded in a single term, except those rules which apply to the Dean's List and to eligibility for financial aid.

In the computation of grade averages, marks for courses are awarded points on the following scale: A = 4, B = 3, C = 2, D = 1, F = 0. For every plus or minus unit an adjustment of +0.3 or -0.3 is made. In order to be recommended for the degree a student must maintain a cumulative average of 2.00 (C) for her entire course and for her senior year specifically. At the end of each term all records are examined. Normally only those students with cumulative averages of 2.00 or above are permitted to remain in college. Continuance in college of students whose work falls below this average depends upon promise of future development and is determined by the Committee on Programs and Academic Standing.

Courses which receive marks of D may not be counted toward the minimum number of courses required in the major field, although they are included in the average for the major.



## **Requirements for Transfer Students**

Before registration the transfer student receives an estimate of the credit she may expect for work she has done at her previous college. She plans her program with her adviser using the estimate as a guide to the required work to be completed.

Transfer students may receive exemption from the Foreign Language Requirement on the basis of their College Entrance Examination scores alone, or on the basis of the combination of those scores and the number of semesters of the language studied at another college. Those who do not receive exemption will be placed in appropriate courses leading to fulfillment of the requirement.

A maximum of 8 courses toward the Barnard degree is allowed for each year's work elsewhere. Four semesters and at least 16 courses must be taken at Barnard, including a minimum of 6 courses in the major field.

Transfer students are subject to the regulations governing summer study as set forth on page 42.



**Registration** Class advisers are appointed from the teaching staff and may be consulted by students with individual questions or for information about the various services and activities of the college. Freshmen and sophomores plan their programs in conference with their class advisers and obtain their signatures on all official forms and documents. Major advisers are appointed in each department to aid juniors and seniors in planning their general programs and in completing the requirements of their particular fields.

Registration takes place each term according to a schedule mailed to all students before the beginning of the term. Classes cannot be attended until all fees are paid and registration is complete. Failure to register at the assigned time will entail the payment of an additional fee.

No student may be registered simultaneously in any other school or college without the consent of the Dean of Studies.

**Language Placement Examinations** Fulfillment of the foreign language requirement or placement in a language course may be achieved on the basis of College Entrance Examination Board scores or previous college courses or both. Examinations are given before registration for students who have studied foreign languages but who cannot be given placement in the above ways. Any student who wishes to take a placement examination may do so, and she must accept the placement she receives.

**Academic Discipline** Enrollment in the College, award of academic credit, and conferring of the degree are subject to the disciplinary powers of the College. Any registration may be cancelled at such time and upon such grounds as the College shall in its sole discretion determine.

**Attendance** Students are expected to attend classes regularly. Those who are absent from classes must expect the quality of their work to be affected. Frequent or prolonged absences from the College or from classes may cause a student to forfeit the right to make up work or take final examinations.

All absences due to illness must be reported on forms available in the Office of Health Services. Illness is considered an excuse for absence only if the student's statement is filed immediately upon her return to college.

Barnard is a nondenominational college. Students who are prevented by conscientious scruples from complying with



academic requirements on days set apart for religious observance should discuss this problem with their religious counselors.

**Withdrawal** A student not subject to discipline for infraction of College rules may withdraw from the College during the term by giving notice of intention to withdraw in writing on forms obtained from the Office of the Dean of Studies. Signature by a parent or guardian is required. Failure to submit the proper notification on the part of a student who withdraws while College is in session may result in a report of WD/F for the term's work.

**Leaves of Absence** Requests for leaves of absence should be made on forms obtained from the Office of the Dean of Studies. A student in good standing may be granted a leave of absence for one term or two consecutive terms only, for personal reasons, e.g., health, marriage, financial necessity, or for study abroad. Completed applications for leave of absence must be received prior to the first term to which it applies: by July 1 for the Autumn Term; by December 1 for the Spring Term.

**Classification of Students** Students are classified as follows:

- Freshmen — those who have completed fewer than 6 courses
- Sophomores — those who have completed 6 courses
- Juniors — those who have completed 14 courses
- Seniors — those who have completed 24 courses
- Unclassified — those who have not yet been assigned definite credit on transfer
- Nonmatriculated—those who are not candidates for the degree

No matriculated student may change her status to that of nonmatriculated student.

**Changes of Program** Programs are filed with the Registrar on Tuesday, September 19 and Wednesday, September 20, in the Autumn Term; and on Thursday, February 1, and Friday, February 2, in the Spring Term. After these dates, new courses may not be added, and other changes are subject to the following regulations:

**Section Changes.** Sections may not be changed except at the written request of the instructor.

**Dropping Courses.** A course may be dropped with the written approval of the class adviser (for freshmen and sophomores), the major adviser (for juniors and seniors), or the College Physician. After a fixed date (see College Calendar, pages 7-8), no course may be dropped except with the approval of

the Dean of Studies, and then only for reasons of serious personal emergency.

**Audited Courses.** No change from a noncredit to a credit basis may be made after the final date for adding a course. Permission of the instructor is required to audit a Barnard course.

**Columbia  
University  
Courses**

Courses in Columbia College not listed in this announcement are open to Barnard students as electives. Students should consult their advisers before including these courses in their programs.

**Graduate School of Arts and Sciences:** With the approval of the major adviser, graduate courses in the major field are open without additional fees to qualified upperclassmen who need this work to achieve their objectives in their major fields. For graduate courses outside the major field, the student must pay the additional fees unless waiver of the fees is recommended by the major adviser and granted by the Committee on Programs and Academic Standing. Approval of the chairman of the department concerned is also required.

Courses in other divisions of the University not listed in this announcement may be elected in certain cases in accordance with regulations sent to each student with her registration materials.

**Teachers College:** Certain courses may be taken by qualified seniors with the consent of the Dean of Studies and the Registrar of Teachers College. Except for seniors in the Barnard education program, fees for these courses are not included in the regular tuition, but are added to the Barnard bill.<sup>1</sup>

**Summer  
Study**

Students are expected to complete the work for the degree in eight academic terms at Barnard. Summer courses may be credited by the approval of the Committee on Programs and Academic Standing when a student has received permission to accelerate or when she has incurred deficiencies in numbers of courses or in requirements. No more than four summer courses may be taken for credit toward the degree.

Requests for summer study credit must receive the written approval of the chairman of the appropriate department. This endorsement may be secured in advance and filed with the Registrar. Students are responsible for insuring that official reports of summer work grades are submitted to the Registrar as soon as possible in the ensuing fall term. The following regulations apply to all summer work:

<sup>1</sup> Financial aid is not applicable to fees for such work.



Not more than two one-semester courses may be elected in any one summer session.

Courses of less than six weeks' duration are credited only in exceptional cases.

No course with a grade lower than C will be credited toward the degree.

Grades will not be included in the Barnard average.

## **Final Examinations**

Final examinations are scheduled at the end of each semester. For the academic year 1972-73 they will be held December 15 through December 22, and May 4 through May 11.

Deferred examinations, given in September and January, are open only to those students whose work is satisfactory and who were absent from the regular examinations for reasons of illness or family emergency. Exceptions to these conditions can be made only by petition to the Committee on Programs and Academic Standing before the regular examination period begins.

Absence for reasons of health on the day of an examination should be reported to the Office of Health Services.

Examinations missed in December are to be taken the following January or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a valid excuse from a final or deferred examination, she will receive a grade of zero for that examination. A fee of \$10, payable in advance, is charged for each deferred examination. A senior who has missed an examination at the end of her last term may apply for a special examination for which the fee is \$10, payable in advance.

## **Examinations During the Term**

Instructors are not required to give make-up examinations to those absent from previously announced tests. An instructor who is willing to give a make-up test is authorized to do so if the student has submitted a report of illness approved by the College Physician or acceptable evidence of other extenuating circumstances.

## **Reading Period**

There are no class meetings on the last class day before the final examination period in each term. This interval may be extended for any class, at the option of the instructor, to the full week prior to the examination period.

## **Transcripts**

Transcripts are sent to all students in February and June. Additional unofficial copies of transcripts may be obtained by

students for the usual fee. Official copies of transcripts bearing the seal of the College and the signature of the Registrar of the College can be sent only to academic institutions, business organizations, and government offices, at the request of the student.

The charge is \$1 for each transcript. For multiple copies ordered at one time the charge is \$1 each for the first three copies and 50¢ for each additional copy.

**Degrees** Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Degrees are granted in May, October, and February. A statement of intention to complete the work for the degree on any one of these dates must be filed with the Registrar at the announced time. (See College Calendar pages 7, 8.) Graduation ceremonies are held in May.

**Honors** The Faculty awards honors to students who complete work for the degree with distinction (*cum laude*, 3.25), with high distinction (*magna cum laude*, 3.50), and with highest distinction (*summa cum laude*, 3.75). Students whose records include work done at another institution will be eligible for honors if both the over-all and the Barnard averages meet this requirement. Departmental honors are awarded to graduates who are recommended by their departments for distinguished work in their major fields.

**Dean's List** A Dean's List, which contains the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. Eligibility is based on at least three courses each term and at least six grades, other than P, for the year. Announcement of the list is made the following October.

**Phi Beta Kappa** The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible. Questions concerning Phi Beta Kappa should be referred to the Office of the Dean of Studies.

**The Honor System** An integral and pervasive aspect of academic life at Barnard College is the school's Honor System, instituted in 1912. Under it, a student is expected to maintain responsibility for her own conduct and to show consideration for other members of the

community in academic matters. This code of responsibility for oneself and to the community applies to such areas as signing of class attendance sheets, taking examinations, and preparation of assignments. Administration of the Honor Code and any infractions of it which may occur are dealt with by the Academic Council, but the success of the Honor System depends on the integrity of each individual Barnard student.

**Health**

The Student Health Service provides diagnosis and treatment of most chronic and all acute medical conditions. The staff is composed of a Director (an internist), four part-time physicians (an internist, a pediatrician and two gynecologists), two psychiatrists, two psychiatric counselors, two nurses, and a receptionist. Medical examinations at regular intervals are obligatory: November 17 is the final date for seniors for the completion of their examination; April 15 for sophomores. Students will not be permitted to register for the succeeding term until they have had this examination.

All students, residents, nonresidents, and commuters, must immediately report any illness, however minor, to the Office of Health Services. If resident students wish to have someone other than the Health Services physicians care for them, their parents must address a request to the Director and send her the name and address of the doctor before registration.

**Housing**

Traditionally, Barnard has attracted students from all over the world as well as from its own community, New York City, and its suburbs. At present the College has academic facilities for 1950 students, of whom approximately 1150 can be housed in the campus residence halls and the Barnard cooperative apartment residences adjacent to the campus. Additional rooms may be assigned by the College in other residences near the campus.

The Director of Residence must know before academic registration each term where every student is living and must have any permission forms required of the student complete and on file. Any student who wishes to change her address at any time after her first registration for a given academic term (even when returning to her legal home) must file with the Director of Residence her new address and necessary permission.

To arrange for off-campus housing, the parent or legal guardian must sign an Off-Campus Housing Permission Card stating that he or she takes full responsibility for the student's health, safety and finances. Permission is official when the card is on file at



the College. The College strongly recommends that two or more students live together. Should a student return to her legal home, she must notify the Director of Residence.

**Housing  
Classifications**

Students are classified as residents, nonresidents, or commuters when they enter Barnard. This classification is based on the distance of a student's home from the College and may change: 1. if the legal residence changes (i.e., the residence of the parent or legal guardian); 2. in case of nonresidents, if they are assigned a room in one of the residences owned and operated by the College; 3. in case of residents, if they move off campus.

*Resident* A resident is a student whose legal home is outside the commuting area and who is assigned a room by the Director of Residence in one of the residences owned and operated by the College, or in housing leased by the college.

*Nonresident* A nonresident is a student whose legal home is outside the commuting area who is not assigned space in one of the residences owned and operated or leased by the College. The parent or legal guardian must submit a written request for off-campus housing (any housing arrangements not within a Barnard owned and operated residence) to the Director of Residence by August 1 for the Fall Term and by December 1 for the Spring Term. When the student accepts a room in college housing, her housing classification changes to that of resident.

*Commuter* A commuter is a student whose legal home falls within the geographic area prescribed by the College as the commuting area. Commuters are eligible for College-assigned housing when space is available. Assignments are on a semester basis. Commuters are not reclassified as residents. Priority is based on academic class and distance. If a commuter is given permission for off-campus housing, her name will be removed from the waiting list for College-assigned rooms unless she specifically requests that it should remain.

*Eligibility* In order for a student to retain eligibility for housing she must be registered for a full academic program. Exceptions may be made for second semester seniors who need to take less than a full program to complete the degree requirements or for students who have permission from the Dean of Studies to take a reduced program.

Any other requests may be forwarded to the Director of Residence, for appropriate consideration.

A reduction of course load may affect financial assistance from the College. A student receiving aid and considering this alternative should consult the Director of Financial Aid.

**College-Owned  
and Operated  
Residences**

Assignments are made by the Director of Residence according to the following priority: resident upperclassmen; incoming resident freshmen; non-residents who wish to change their status to resident; re-admitted resident students; non-resident transfer students; commuters who wish resident accommodation on a temporary, semester basis without a change of housing status.

1. **Brooks, Hewitt and Reid Halls**, supervised dormitories at 3001 Broadway, are operated as one complex with space for approximately 515 students. Rooms are primarily singles and doubles. Freshmen are usually assigned to double rooms. All students living in these halls are required to subscribe to the College meal plan. Rooms are \$700 singles; \$650 doubles or other multiple occupancy per academic year. Board \$525 per academic year; fifteen meals per week (Monday through Friday).
2. **616 West 116 Street**, an apartment-style supervised residence directly across the street from the other halls, provides housing for 212 residents in suites of single and double rooms accommodating five or six girls. Each suite has a kitchen and bath. Rooms are \$750 singles; \$700 doubles per academic year. Subscription to the food plan is optional.
3. **620 West 116 Street**. Barnard College has limited space available in this recently purchased apartment building. There is no resident supervision. Seniors have first priority for this space. Rooms are \$750 singles per academic year. Subscription to the food plan is optional.
4. **600 West 116 Street**. Barnard has recently purchased this apartment building. There are limited spaces available to Barnard students. The building will operate on the same principle as 620 West 116 Street. The rooms are \$750 for singles and \$700 for doubles, per academic year. Subscription to the food plan is optional.
5. **Plimpton Hall**, an apartment-style supervised residence on Amsterdam Avenue and West 121 Street, a short walk from the main campus, provides housing for 280 residents in suites of five single rooms. Each suite has a kitchen and bath. Rooms are \$790 per academic year. Subscription to the food plan is optional.

*The College is considering instituting co-educational housing with Columbia College for the academic year 1972-73. Should this program develop it may involve several College residences.*

**College-Reserved Space**

The Fairholm, 503 West 121 Street, is a residence owned and operated by Teachers College of Columbia University. The building may house graduate men and women from Teachers College on separate floors. Students have their own keys. Assignments are made by the College to students who have parental permission. Barnard contracts for single rooms in self-contained suites with kitchens and baths. Rooms presently range from \$570-\$715 per academic year. There will be an increase which has not been determined.

**Married Students**

Students who plan to marry during the academic year and continue in college are asked to notify the Dean of Studies. Married students, as a rule, will not be allowed to remain in the college residences. They will be subject to the financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

**Financial Aid for Room and Board**

A Barnard student whose academic record and financial situation make her eligible for financial aid from the College will have the cost of room and board considered in her award if she is classified as a resident student and resides in College housing.

**Office of Placement and Career Planning**

The Office of Placement and Career Planning assists students and alumnae in planning for and finding full-time, part-time and summer positions. Through personal interviews and the use of career information and resources, the staff helps students and alumnae to make vocational choices appropriate to both immediate needs and long range goals.

The Office, which is open throughout the year, contacts hundreds of potential employers for jobs in many different fields. In addition the staff does research on those fields of special interest to Barnard students and alumnae. The Office arranges meetings with professionals to discuss specific career opportunities and conferences on general vocational concerns. It also maintains a library of vocational material and a collection of catalogues from graduate and professional schools. Each year several thousand requests for credentials for graduate school are sent out for seniors and alumnae.

About 50% of Barnard students do some paid work during the school year. The Office of Placement and Career Planning lists part-time jobs, for on and off-campus, ranging from manuscript



typing to dog walking, from ushering to tutoring. The Office supervises the Barnard Babysitting Service, which receives over five thousand calls for babysitters each year. Students' average term-time earnings range from about \$250 to \$550. Freshmen are referred to part-time jobs for no more than 10 hours per week their first semester.

Approximately 75% of Barnard students work during the summer. Average earnings for full-time summer jobs range from \$600 to \$900. The staff helps students find summer jobs, provides information on special programs and internships and contacts many other potential summer employers throughout the country. In addition the Office places students on the Federal Work-Study Program in jobs during the school year and the summer. During the summer Work-Study students have had jobs in as many as 42 organizations in 14 different states, ranging from California to New York, from Minnesota to Louisiana.



The College reserves the right to withdraw or modify any course or to change the instructors as may be necessary.

Course descriptions will be found in the following pages. More information may be obtained from the chairmen of the departments at registration periods and during the academic year.

Room assignments are printed on separate sheets and distributed during registration.

Autumn Term courses are marked by odd numbers, Spring Term courses by even numbers, year courses by consecutive odd and even numbers. An even number followed by x indicates a course given in the Autumn Term. An odd number followed by y indicates a course given in the Spring Term.

Indivisible courses which run throughout the year are marked with a hyphen between the numerals (Art History 1-2). No credit is given for work in an indivisible course dropped at midyear without the written consent of the instructor and the departmental chairman and the approval of the Committee on Programs and Academic Standing.

Divisible courses which run throughout the year are marked with a comma between the numerals (Geography 1, 2). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only if written permission of the instructor is obtained.

Courses are arranged in examination groups to avoid conflicts on the examination schedule. The groups are indicated by boldface numerals following the course title (English Composition [**0**]). Group **0** includes courses which ordinarily do not have set examinations. No student may elect two courses in the same examination group, other than Group **0**, without a written statement from one or the other instructor that a conflict examination will be given. This statement must be filed by the student in the Registrar's Office. A complete list of courses by examination groups is given on page 252.

The following alphabetical prefixes designate the division of the University for whose students the course is primarily offered or indicate joint courses.

C — Columbia College

F — School of General Studies

G — Graduate Faculties

R — Program in the Arts

V — Joint undergraduate course with Columbia College and/or the School of General Studies

W — Other inter-faculty course

The level of the course in general is as follows:

1000-3999 Undergraduate

4000-5999 Graduate, open to qualified undergraduates

6000-8999 Graduate, normally not open to undergraduates

The symbol x follows the number of a course given in the Autumn Term; the symbol y follows the number of a Spring Term course.





**I. American Studies**

This program is supervised by the Committee on American Studies:

<i>Professor of History</i>	Annette K. Baxter, <sup>1</sup> Chairman
<i>Professor of Art History</i>	Barbara Novak
<i>Professor of History</i>	Basil Rauch
<i>Instructor in English</i>	Christine Royer

<sup>1</sup> Absent on leave, Spring Term.

The purpose of the program is to develop understanding of American civilization considered as a whole. The results of specialized study in all fields of learning dealing with American subject matter are assembled for the work of the senior seminar.

A major in American Studies: In order to acquire a broad understanding of American civilization and acquaintance with various methods of studying it, a student who majors in American Studies must take a program, planned in consultation with her major adviser, which includes the following: (a) Two courses selected from among ancient, medieval, or European history in any combination. (b) Two courses in American history. (c) Two courses in social science dealing primarily or partly with American subject matter. (d) Two courses in humanities dealing primarily or partly with American subject matter. (e) In the junior year American Studies 1-2, and in the senior year American Studies 3-4.

A research essay to be prepared in the senior seminar is required to lieu of the major examination.

**1-2. Junior Readings. [0]**

Students will read selected classics and examples of contemporary scholarship in American Studies. The aim of the course is to prepare the student to discuss and write critically on interdisciplinary works. May be entered either semester. Open to non-majors with permission of the instructor. Autumn Term: Professor Baxter. Spring Term: Mr. Reynolds. Biweekly meetings. Th 3:35-5:15.

**3-4. Senior Seminar. [0]**

Individual research on diverse aspects of American civilization, in consultation with the instructors, and presentation of results in the form of the senior essay. Autumn Term: Professor Baxter. Spring Term: Professor Rauch. W 4:10-6 and frequent conferences.

**II. Ancient Studies**

This program is organized and administered by a committee of members of the participating departments at Barnard College

and Columbia College — Art History, Greek and Latin, History, Middle East Languages and Cultures, Religion.

The major in Ancient Studies is designed to allow the student to explore various aspects of antiquity while concentrating on one. By studying the ancient world in several academic disciplines she will acquire a general knowledge and a context for her own area of specialization.

For details consult Professor Lydia Lenaghan, 215 Milbank.

### III. Program in the Arts

This program is supervised by the Committee on a Program in the Arts:

*Professor of English* Barry Ulanov, Chairman

*Professor of Music* Hubert Doris

*Professor of  
Art History* Barbara Novak

*Associate Professor  
of English (Theater)* Kenneth Janes

*Associate Professor  
of Physical  
Education (Dance)* Jeanette Roosevelt, Coordinator

The Program in the Arts is offered for a limited number of students who are gifted in one of the arts and who wish both to continue the development of their skills and to obtain a liberal arts education. It is designed as an interdisciplinary major in the arts with concentration in one particular art. The program offers a general introductory course, a junior colloquium, and a senior seminar, as well as directed work in a field of concentration such as studio work in the visual arts, music as a performing art, the dance in all its aspects, theater as a performing art or as a discipline of literary scholarship, and writing in all its branches.

Students are normally admitted to the Program in the Arts in their sophomore year, but freshmen who look forward to entering this major are strongly advised to take the introductory course in their freshman year and to seek the counsel of members of the Committee in shaping their program as early as possible. Admission is based upon application to be made before March 1 of the sophomore year. Each applicant will be asked to provide supporting evidence of her individual skill. There are

broad general requirements and special ones in each of the disciplines, but each student's program will be given shape with the utmost flexibility possible.

Courses offered under the sponsorship of the Committee, required of all students majoring in the Program in the Arts, are described in the section below. Requirements for the various concentrations within the Program are outlined following. A student should consult with the faculty member on the Committee who is responsible for the area in which her interest lies.

### **1-2. Introduction to the Arts.**

**[7]**

An interdisciplinary presentation, with special emphasis upon theories of style and performance. The interrelationship of the arts, their separate and common critical vocabularies, their borrowings from each other, their defining differences. The course stresses the phenomenon of process in the arts, observed through (1) the consideration of style in the various arts, (2) the study of a crucial period in the history of the arts, and (3) the consideration of major figures in the period, whose innovations in style or inventions in technique led to new forms of expression. Subject for 1972-73: The relation of the arts in the Renaissance. Autumn Term: Professors Ulanov, Doris, Roosevelt, and Mrs. Koslow. Spring Term: Professors Ulanov, Janes, Roosevelt, and Mr. Sorell. Tu Th 10:35-11:50.

### **[51. Junior Colloquium.**

A close study of critical and scholarly works in the history and traditions of the arts, selected to illuminate a particular theme each year. The aim of the colloquium is to develop skills in writing and discussion, and to equip students to deal with the special problems that accompany any examination of the arts on an interdisciplinary basis. Theme for 1973-74: The multiple meanings of "image" in the arts. To be offered beginning 1973-74.]

### **[91, 92. Senior Seminar.**

Contemporary issues in the arts, with special reports and projects leading to a thesis or a performance. Participating students are encouraged to work in groups, whenever their interests coincide or the logic of performance suggests such collaboration. Theme for 1973-74: The influence of Cubism on arts other than painting. To be offered beginning 1973-74.]

#### **Courses required for the Dance concentration:**

Dance 60. Dance Workshop. Four semesters for two courses of credit.  
Dance 63. Form in Dance Composition.  
Dance 64. Content in Dance Composition.  
Music V1109x, V1110y. History of Dance.

#### **Courses required for the Music concentration:**

Any two of the following:  
Music V3124y. History II.  
Music V3125x. History III.  
Music V3126y. History IV.

*Plus* the following courses if the student is not exempted from them upon entrance into the Program:



Music V2100x. Theory I.  
 Music V2101y. Theory II.  
 Music V2300x-V2301y. Theory III and IV.

## Courses required for the Theater concentration:

English 30x. Introduction to the Theater (may be waived upon evidence of sufficient theater background).  
 English 33, 34. Play Production.  
 English 31 or 32. The Contemporary Theater.  
 English 35 or 36. Actor's and Director's Interpretation of Dramatic Literature.  
 Dance Technique. One semester. (Dance composition may be substituted upon evidence of adequate prior training.)  
 Three courses in dramatic literature drawn from the following:  
 English 63 or 64. Shakespeare.  
 English 86. Drama from Ibsen to the Present.  
 French 34. The French Theater of the Seventeenth Century.  
 Class. Lit. V3123y. Greek Drama and its Influences.  
 Greek V3305x. Tragedy.  
 German 25y. Great German Dramatists and Theaters of the 19th Century.  
 German 26. The Modern German Theater.  
 Russian V1229x. Russian Drama and Theater.  
 Spanish 22. The Spanish Drama.

## Courses required for the Visual Arts concentration:

Art History 1-2. Introduction to the History of Art.  
 Art History 78. Introduction to Painting and Sculpture of the Twentieth Century.  
 A minimum of four studio courses, to be selected from offerings listed in the Barnard catalogue (other than those with 2 points credit).

## Courses required for the Writing concentration:

Four courses selected from the following:  
 English 3, 4. Structure and Style.  
 English 6. Advanced Composition.  
 English 7, 8. Experiments in Writing.  
 English 11, 12. Story Writing.  
 English 13, 14. Dramatic Writing.  
 English 93. Literary Criticism: Analysis and Evaluation.  
 Plus two advanced courses from any of the college departments of language and literature.

## IV. Environmental Conservation and Management

This program is organized and administered by a committee of members of the Departments of Biology, Geography and Geology:

<i>Professor of Geography</i>	Leonard Zabler, Chairman
<i>Professor of Biology</i>	Donald D. Ritchie <sup>1</sup>
<i>Professor of Geology</i>	John E. Sanders
<i>Associate Professor of Biology</i>	Patricia L. Dudley
<i>Associate Professor of Biology</i>	David W. Ehrenfeld

<sup>1</sup> Absent on leave, Spring Term.

The program acquaints the student with a set of issues that are crucial to the survival of mankind and begins the development of the means to cope with them. These issues concern the adequacy of the earth's natural resources to sustain an environment of quality when confronted by the pressures of the current urban-technologic-population explosion. Their combined effects threaten the natural environment with profound and possible irreversible disturbances and question western man's land ethics.

The goals of the program are: (1) to train and equip students with the requisite skills, values, and attitudes to enable them to participate in the work of designing, establishing, and maintaining a viable ecologic habitat for man, and (2) to promote the development of research skills in environmental science. The concept of the ecosystem lends unity to the multidisciplinary character of environmental studies.

The academic program is designed around the idea that man's ecosystem is the set of interacting relationships among the physical, biological, and cultural forces that govern the human realm. Coherence is provided by core courses followed by in-depth studies along one of several subject matter or managerial tracks. The core courses are: General Biology (Biological Sciences 1-2), Ecology (Biological Sciences 8), Environmental Science (Geography 1, 2), and Conservation Theory (Geography W4014y). In addition, a cluster of conservation courses on field work, readings, lab projects, and internships has been developed. Students may opt to follow a managerial or a scientific program. Model programs are available from the committee. The core plus five advanced electives, one of which shall be a year seminar, satisfy the major requirements. Examples of specialized paths are: biological conservation, environmental and physical resources, coastal zone, urban and suburban planning, environmental center operation. Details are available from committee members.

- 41y. Colloquium.** [0]  
Readings, discussions, reports, and lab or field study of selected aspects of man's relation to the environment. Occasional invited guests. Topics and sections will be announced at the beginning of the semester. Permission to register is required. Committee Members. Hours to be arranged.
- 46. Environmental Monitoring.** [0]  
Introduction to environmental quality monitoring principles and instrumentation. Design of biologic, aquatic, atmospheric, terrestrial, industrial, and consumer product surveillance networks. Lectures,

readings, laboratory and field experiences. Permission to register is required. Professor Zobler, Miss Berger, and guest lecturers.  
W 3:10-5.

## 48. Coastal Zone Management. [0]

Geologic, physical, biologic, and climatic factors in origin and present dynamics of various kinds of coast, with emphasis on the coasts in the New York area; mankind's use of coastal zones; problems in management; and governmental and private programs. Lectures, readings, discussions, outside speakers, individual research projects leading to a term paper, and at least four field trips. Prerequisite: Geography 1, 2; or Geology V1021x, V1022y; or the equivalent. Professor Sanders. Hours to be arranged.

## 51, 52. Environmental Projects. [0]

Special study projects in environmental science, field research, internships, and environmental issues of interest to the student. Individual arrangements with a member of the faculty.

## 61. Urban Parks and Environmental Centers. [0]

Park organization and program planning for urban communities. The management of parks for open space, recreational activities, and environmental education centers. Case studies and field planning experiences. Permission of the instructor required. Mr. Jones.  
M W 12:10-1.

## [62. Environmental Center Management. Not given in 1972-73.]

## 69, 70. Seminar. [0]

Reports and discussions of current individual or joint field research culminating in the senior essay. Committee Members. Hours to be arranged.

Additional courses in the program are offered by Biological Sciences, Geography, and Geology. For complete descriptions consult department course listings.

Biological Sciences 4. Natural History of the New York Area.

Biological Sciences 13. Biological Conservation.

Biological Sciences 14. The Geography of Flowering Plants and Plant Communities.

Biological Sciences 17. The Interaction of Plants and Urban Men.

Biological Sciences 18. Vegetational Management in Cities.

Geography 3. Agricultural Development and Agrarian Societies.

Geography 4. Ecology of Urban Industrial Society.

[Geography 31. Environmental Policy. Not given in 1972-73.]

[Geography 32. Transportation and Land Use. Not given in 1972-73.]

Geography 33. Environmental Planning and Perception.

Geography W4011x. Pedology and Soil Resources.

[Geography W4012x. Hydrology and Water Resources. Not given in 1972-73.]

Geology W4226y. Marine Sedimentology.

Geology W4927x. Introduction to Oceanography.



### **V. Foreign Area Studies**

This program is supervised by the Committee on Foreign Area Studies:

<i>Professor of History</i>	George Woodbridge, Chairman
<i>Professor of Anthropology</i>	Abraham Rosman <sup>1</sup>
<i>Professor of Chinese and Japanese</i>	John Meskill <sup>1</sup>
<i>Professor of English</i>	David A. Robertson, Jr.
<i>Professor of English</i>	Barry Ulanov
<i>Professor of History</i>	Chilton Williamson
<i>Associate Professor of French</i>	Serge Gavronsky
<i>Associate Professor of Oriental Studies</i>	Barbara Stoler Miller
<i>Assistant Professor of History</i>	Daniel Field <sup>1</sup>
<i>Instructor in Spanish</i>	Randolph D. Pope

<sup>1</sup> Absent on leave, 1972-73.

The purpose of Foreign Area Studies is to provide an introduction to the study of some one foreign region or country of the world. The work is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. The student who wishes to major may choose one of the regions listed below. The courses named under each region include only those most commonly elected. Other courses, or other regions of concentration, may be chosen upon approval of the project by an adviser. Concentrations in African Studies can be arranged in certain departments; for information see advisers in Anthropology, Geography, History, and Political Science. For fuller descriptions of the courses listed, see under the appropriate department.

The senior requirement varies according to the region studied. Majors should consult their advisers for details.

A major in Foreign Area Studies is open to a limited number of qualified students whose applications are approved by the committee in charge. Freshmen and sophomores anticipating such a major should consult their class advisers and the officer in charge by March 1 of the sophomore year.

**Asia** (Adviser: Mrs. Miller) See Oriental Studies, page 165.

## British Civilization (Adviser: Mr. Robertson)

This program emphasizes historical and literary traditions of British Civilization and is comprehensive enough to include specialized interests in the fields of imperial and commonwealth studies. A student who wishes to major should plan, in consultation with her adviser, a program to include (a) four courses in history; (b) four additional courses, of which two must be in English literature; (c) two courses in senior seminar in History or English.

## Latin America (Adviser: Mr. Pope)

A major consists of the starred courses and additional courses, the latter chosen to meet the following requirements: (a) one course in Latin American history; and (b) four more courses, of which two should be in one department and above the introductory level, chosen with the help of the adviser.

Anthropology V3029y. The Archaeology of the New World.

Art History W3080x. Pre-Columbian Art.

Economics G4321y. The Latin American Economy.

Geography G4201y. Latin America.

History W4779x-W4780y. History of Latin American Civilization.

History G4787y. Latin American Independence Movements, 1789-1830.

Political Science G4461x. Latin American Political Behavior.

Spanish 11. Significant Themes of Contemporary Latin-American and Spanish Literature.

\*Spanish 14. Spanish-American Culture.

\*Spanish 31-32. Spanish-American Literature.

\*Spanish V3811x or V3812y. Latin-American Seminar.

## Russia (Adviser: Mr. Juviler)

A major consists of the starred courses and additional courses, the latter chosen to meet the following requirements: (a) at least two courses in Russian literature above the language requirement level; (b) four more courses on Russia, chosen with the help of the adviser; (c) three courses chosen from appropriate colloquia and senior seminars in consultation with the adviser; and (d) a reading knowledge of Russian adequate for research in the senior seminar.

Art History G4331x. Russian Art.

Economics W4524y. Economic Organization in the Soviet Union and Eastern Europe.

Geography W4402y. Population Geography of the U.S.S.R.

\*History 27. Russia from the Time of Troubles to the Era of Reforms.

\*History 28. Russia from the Era of Reforms to the Death of Stalin.

History 29. Pre-Petrine Russian Culture.

History 30. Russian Radicalism and Its Antagonists.

History 31. Serfdom in Russia and Slavery in the United States.

Political Science 19. Soviet Politics.

Political Science 20. Colloquium on Communism and Revolutionary Change.

Political Science 21. Colloquium on the Politics of Social Change in the U.S.S.R.

Russian V3333x, V3334y. Introduction to Russian Literature.

Russian V3454y. Russian Thought in the Nineteenth and Twentieth Centuries.

Russian V3461y. Pushkin.

Russian V3462x. Gogol.

Russian V3463x. Tolstoy.

Russian V3464y. Dostoevsky.  
 Russian V3465x. Russian Poetry in the Nineteenth and Twentieth Centuries.  
 Russian V3467y. Twentieth-Century Prose Writers.  
 Sociology G4010y. The Structure of Soviet Society.

### **Western Europe (Adviser: Mr. Woodbridge)**

For the program on England, see British Civilization above. For other Western European countries, a major consists of the starred courses and additional courses, the latter chosen to meet the following requirements: (a) two courses in the literature of one country, in the original language; (b) four more courses on the same country, chosen with the help of the adviser; and (c) two courses of senior seminar, usually in History.

The courses listed below are meant to indicate only the foundations on which a full program may be based. For more information, consult the adviser.

\*History 11. Main Currents of the Modern European World: Renaissance to the French Revolution.

\*History 12. Main Currents of the Modern European World: Waterloo to Today.

[Two other history courses may be substituted for 11 and 12 with the approval of the adviser.]

History 25. The Establishment and Downfall of the French Monarchy: 1515 to 1789.

History 26. France in Turmoil: 1789 to Today.

French 23-24. The Culture and Institutions of France.

French 25-26. French Historical Prose.

French 21, 22. Masterpieces of Literature from the Middle Ages to the Twentieth Century.

German 16. German Romanticism.

German 11, 12. Main Currents in German Literature and Culture.

History 13. The Italian Renaissance.

Italian V3449x-V3450y. Modern Italian Literature.

Spanish 13. The Culture of Spain.

Spanish 18. Literature of the Golden Age.

Spanish 23y. Nineteenth Century Literature in Spain.

Spanish 25. Contemporary Spanish Literature, Part I.

Spanish 26. Contemporary Spanish Literature, Part II.

Art History 75, 76. European Painting Since the Renaissance.

\*History 91-92. Senior Seminars in European Civilization.

## **VI. Medieval and Renaissance Studies**

*Officer in charge:* Professor Maristella Lorch

*Representative for  
Columbia College:* Professor Malcolm Bean

This program is supervised by the Committee on Medieval and Renaissance Studies:

*Professor of English* Eleanor Rosenberg

*Professor of English* Barry Ulanov



*Professor of  
Religion*    Theodor Gaster

*Associate Professor  
of French*    Tatiana Greene

*Associate Professor  
of History*    Suzanne Wemple (Adviser)

It will be supported by a University-wide group of consultants.

The purpose of this program is to provide an understanding of Medieval and Renaissance civilizations on the basis of interdisciplinary studies. Students will take related courses in various departments. The programs will be set up *individually* with particular emphasis on one of the disciplines: art history, history (which will combine Medieval and Renaissance Studies), one or more of the literatures, philosophy, romance philology, music, or religion.

Prerequisite for Medieval Studies: History 3. The Early Middle Ages and History 4. The High Middle Ages.

Prerequisite for Renaissance Studies: History 4. The High Middle Ages and History 13. The Italian Renaissance in the Fifteenth and Sixteenth Centuries, or depending on the field of concentration, History 13. The Renaissance, and History 14. The Reformation in Europe in the 16th Century.

Language requirement for Medieval Studies: A reading knowledge of one Romance or Germanic language. In special cases students may petition for another language. Students are expected to acquire a reading knowledge of Medieval Latin before graduation. (See Course 13-14)

Language requirement for Renaissance Studies: A reading knowledge of two languages, preferably Latin and Italian, must be acquired before graduation.

Required courses: A minimum of eight one-semester courses within the general area of Medieval or Renaissance civilization, including courses listed below. Of these, at least three or four must be advanced courses in the field of concentration.

The following courses are given primarily for students in the program but should places remain open students with the interest and necessary preparation will be admitted upon interview with a member of the Committee.

1, 2.    **Introductory Seminars:** [0]

1. (Religion W3503x. III) **The Interior Journey: Autobiography of Religious Experience.**

Descriptions of religious experience in autobiographical and biographical sources, such as in the writings of Augustine, Anthony, Abelard, El Gazali, Abulafia, Teresa of Avila, John Bunyan, George Fox. Professor Pagels. Th 3:35-5:25.

2. **The Restoration of Antiquity and the Revival of Letters.**

An examination of the humanists' effort to revive the classical authors of Greece and Rome through philology. Selected readings of major classical authors and major Italian and French humanists. Mr. Quintin. Hours to be arranged.

13-14.    **Readings in Medieval and Renaissance Texts in the Original.** [0]

Medieval and Renaissance Latin authors. Majors must achieve an average of B over two semesters. If not, one or two additional semesters are required. Dr. Kostka. Hours to be arranged.

90.    **Senior Seminar in Medieval and Renaissance Studies.** [0]

Members of the seminar will meet weekly for reports on assigned readings. In addition, each student will work individually under the guidance of the seminar director on a project begun in the pre-requisite course. The results of this project are to be presented in the form of a senior thesis. An oral defense of the thesis will be scheduled before the end of the course. Prerequisite: a colloquium or senior-level seminar in a field of the student's special discipline (e.g. English 97, I or II), to be selected during the spring term of the junior year in consultation with the instructor of Course 90, and to be taken in the autumn term of the senior year. Professor Rizzo. Hours to be arranged.

**VII. Urban Studies**    This program is supervised by the Committee on Urban Studies:

<i>Professor of Political Science</i>	Demetrios Caraley, Chairman
<i>Professor of Education</i>	Patricia A. Graham <sup>1</sup>
<i>Professor of English</i>	Barry Ulanov
<i>Professor of Geography</i>	Leonard Zabler
<i>Professor of History</i>	Basil Rauch
<i>Professor of Sociology</i>	Bernard Barber <sup>1</sup>
<i>Associate Professor of Anthropology</i>	Paula G. Rubel, <sup>1</sup> Secretary
<i>Associate Professor of Economics</i>	Jean Gooch

<sup>1</sup> Absent on leave, 1972-73.

The purpose of urban studies is to develop understanding of the basic processes, institutions, problems, and achievements of city life. A major in urban studies can be taken only in conjunction with a concentration in one of the regular departments. Normally the student should choose as major adviser the member of the committee from the department in which she intends to concentrate.

The major seeks, first, to expose the student through departmental and interdepartmental courses to the concepts and findings of a broad variety of disciplines as they bear on urban subject-matter; and second to encourage the student to acquire the techniques and habits of scholarly investigation through pursuit of more advanced and concentrated work in some particular urban-related discipline including the writing of a senior thesis.

The requirements for a major in Urban Studies are: (a) one course dealing primarily with urban subject-matter in each of three of the following departments from among those courses indicated: anthropology (V3100y, Urban Societies), economics (W3228x, The Urban Economy), history (72, W4674y, American Urban History), political science (V3313y, American Urban Politics), sociology (33, The Community; 34x, American Minorities; or 48, Black Americans in the Twentieth Century); (b) one course dealing primarily with urban subject-matter from a list approved by the committee in each of two other departments, such as art history, English, geography, psychology, biology, architecture, urban planning; (c) in the junior year Urban Studies 45-46, and in the senior year Urban Studies 64; (d) satisfactory completion of a concentration in one of the participating departments consisting of not fewer than five courses and the writing in that department of a senior thesis on an urban topic to be approved by the committee.

Note: A list of the specific courses that are approved for fulfilling requirement (b) and of the departments that offer concentrations for urban studies majors is issued periodically by the chairman.

## 45-46. Junior Colloquium.

[0]

Readings from various disciplines, discussions, and reports focusing on the history and achievements (Autumn Term) and the contemporary problems (Spring Term) of city life.

Autumn Term: Section I Miss Merget. W 2:10-4. Section II Mr. Chambers. Tu 2:10-4. Spring Term: Section I Miss Merget. M 3:10-5. Section II Professor Makarushka. Th 2:10-4.



**C1201x. An Introduction to Urban Studies.**

Mr. Cook. Hours to be arranged.

**63. Urban Workshop Seminar.****[0]**

Readings, discussions, and reports on the organizational processes of urban institutions and their impact on urban life and conditions. A required part of the course is actual work experience in governmental or private urban agencies. Prerequisite: Senior standing and registration with the urban studies administrative assistant during spring preregistration. Open to non-majors only by permission of the instructor Miss Merget. Bi-weekly meetings. Tu 2:10-4.

**64. Senior Colloquium.****[0]**

Readings and discussions on emerging trends in and prospects of cities. Reports on research being conducted for the senior thesis. Miss Merget. Th 4:10-6.

**C3880y. Seminar in Urban Studies.**

Instructor to be announced. Hours to be arranged.



## I. Inter-departmental Course 1.

### Female and Male: An Interdisciplinary Approach. [7]

Evolutionary, genetic, and physiological bases of sex: factors determining sex differences, hormones and behavior, pregnancy and motherhood, sex role strategies in the animal kingdom. Cultural definitions of sex roles in comparative perspective: ranges of variability and the significance of the constants. Psychological development of feminine and masculine behavior and behavioral sex differences in contemporary society. Personality theory and sex roles: Freud and Erikson. Current problems in sexual, familial and economic aspects of female-male relationships and in the status of women. Projections for the future and direction of social policy. Professor Komarovsky (Chairman), Professors Ehrenfeld, and Mates. Tu Th 10:35-11:50.

(This is a joint offering of the departments of Anthropology, Biological Sciences, Psychology, and Sociology.)

## II. Experimental College 1, 2.

An experiment in self-structured learning. Evaluation of the learning process, through the creation and execution of a program of independent study. Students may work in cooperation with faculty sponsors either individually or in a group or groups. Proposals for projects must be approved before September 20 for the Autumn Term and February 2 for the Spring Term. Enrollment is limited to forty students, and no more than three terms in Experimental College may be credited toward the degree.

## III. Studies in the Humanities

This program, not to constitute a major, is supervised by the Committee on Studies in the Humanities.

*Professor of French*

Maurice Z. Shroder, Chairman

*Assistant Professor of English*

Maire Kurrik

*Assistant Professor of Music*

Gordana Lazarevich

*Assistant Professor of Religion*

Elaine Pagels

*Instructor in Art History*

Joseph Masheck

The following courses are designed to permit students to broaden their knowledge of the humane tradition and to complement the kinds of specialization inherent in a major program.

Except where prerequisites are indicated, all courses are open to freshmen.

### 1, 2. The Faust Theme in Literature and Music. [9]

Autumn Term: Literature. The quest for forbidden knowledge and sensual experience. Medieval, Renaissance, Romantic and Modern embodiments of man's search for the secrets of life and creativity. Faust the sorcerer and alchemist as precursor of *Frankenstein* and *Dr. Jekyll and Mr. Hyde*; Faust as sensualist compared with the literature of the Don Juan theme; Faust as Nietzschean immoralist. Principal texts by Marlowe, Goethe, Mann. Professor Peters. Tu Th 2:10-3:25.

Spring Term: Music. Major 19th and 20th-century vocal and instrumental compositions based on Faust (Schubert, Schumann, Berlioz, Liszt, Wagner, Mahler, etc.). Vocal texts, operatic libretti, and such concepts as "Mephistophelian," "Redemption through sacrifice," to be studied with reference to specific compositions. One hour is a listening hour. Prerequisite: Humanities 1, Music 1-2, or the equivalent with the permission of the instructor. Professor Lazarevich. Tu Th 2:10-3:25.

**3. The Myths and Symbols of Modernity.**

[7]

An examination of the idea of modernity as expressed in terms of myths and symbols with particular attention to their significant formulators and spokesmen from Goethe to Jung. Among other figures to be considered: Coleridge, Baudelaire, Marx, Frazer, Nietzsche, Freud, Ruskin, Weber, Kierkegaard, Strindberg, Dostoevsky, James, Wittgenstein. Professors Gaster, Kurrik, and Ulanov. Tu Th 10:35-11:50.

**4. Autobiography and Confession.**

[9]

Readings in major autobiographical texts, including works by St. Augustine, Cellini, Montaigne, Rousseau, De Quincey, Mill, G. Moore, H. Adams, Gide, Freud, and Sartre. The course will consider such questions as the notion of "formation," the attitude toward the self, and the general tendency of autobiography toward *exemplum* and *apologia*. Professor Shroder. Tu Th 2:10-3:25.





<i>Professors</i>	Morton Klass, Abraham Rosman <sup>1</sup>
<i>Associate Professors</i>	Paula G. Rubel, <sup>1</sup> Joan Vincent (Acting Chairman; 411B Milbank Hall)
<i>Assistant Professor</i>	Bette S. Denich
	Officers of Columbia University offering courses listed below:
<i>Professors</i>	Morton H. Fried, Marvin Harris, Edward P. Lanning, Robert F. Murphy, Elliott P. Skinner
<i>Associate Professor</i>	Ralph L. Holloway
<i>Assistant Professors</i>	George C. Bond, Myron L. Cohen, Shirley S. Gorenstein, Allen W. Johnson
<i>Lecturers</i>	John Attinasi, Robert Stigler

<sup>1</sup> Absent on leave, 1972-73.

Anthropology is the study of the biological and cultural development of man, and of the contemporary variety of human societies and their cultures. The student majoring in this field will develop a perspective on man and his ways that is not bound by her own time and culture, and she will find herself drawing upon the literature of such different disciplines as genetics, archaeology, ethnography, linguistics, and the social sciences. While the study of anthropology contributes to a liberal arts education, the student will also receive adequate preparation for further study in graduate school, or for employment in the growing field of applied social change.

Every major is expected to have a general knowledge of all the fields of anthropology and of their interrelationship. Anthropology V1001, V1002 is required of all majors as a prerequisite to advanced work in the subject. All majors are also required to take Social Organization (V3011). Courses in archaeology, linguistics, physical anthropology and ethnographic areas are strongly recommended for majors. In the junior year, a major will take Anthropology 41 and 42, and in her senior year Anthropology 51-52, a seminar for independent research.

Several major museums and libraries in New York offer exceptional opportunities for research. Various summer schools offer opportunities for research in archaeology and ethnography, and under certain circumstances such work may be credited toward the Barnard degree. Students interested in cultural anthropology will be encouraged, whenever possible, to conduct actual research among ethnic groups in the New York area, or, during their summer vacations, in other localities.

In lieu of a major examination, each student in the required senior seminar (51-52) will write a senior essay.

## Basic Courses

- V1001x and V1001y. Introduction to the Study of Man.**  
 Man's biological and cultural evolution, as studied by physical anthropologists and archaeologists; introduction to anthropological linguistics. V1001x. Section 1 Professor Fried. M W 11-12:15. Section 2 Professor Holloway. M W 7:10-8:25. Section 3 Professor Klass. Tu Th 9:10-10:25. V 1001y. Professor Lanning. M W 1:10-2:25.
- V1002x and V1002y. Introduction to Cultural Anthropology.**  
 Comparative and functional analysis of culture; habitat, technology, and economy; social and political relations; ideology—magic, religion, and science; art, music, and literature; life cycles and personality. V1002x. Professor Murphy. M W 1:10-2:25. V1002y. Section 1 Professor Fried. M W 11-12:15. Section 2 Professor Murphy. M W 7:10-8:25. Section 3 Professor Klass. Tu Th 9:10-10:25.

- V3201y. Physical Anthropology.**  
 Evolutionary theory, population genetics, race, human paleontology, and primate behavior. Professor Holloway. Tu Th 4:10-5:25.

- Linguistics**  
**V1101x, V1102y. Introduction to Linguistics.**  
 The nature of language. Characteristics of phonological and grammatical systems and of the lexicon. Evolution of language. Role of linguistics in related disciplines. Modern techniques of linguistic analysis. Linguistics V1001x is prerequisite to Linguistics V1102y. Section 1. Instructor to be announced. Tu Th 2:10-3:25. Section 2. Instructor to be announced. Tu Th 11-12:15.

## Intermediate Courses

- V3002y. Political Anthropology.**  
 The development and comparative study of political structure and government in non-western societies. Professor Bond. Tu Th 10-11:15.
- [V3003y. Problems in Developing Countries.**  
 Professor Denich. Not given in 1972-73.]
- V3004x. Introduction to Archaeology.**  
 The history, goals, theoretical frameworks, research designs, and techniques and methods for conducting archaeological research. The relationship of archaeology to anthropology, art history, history, and classics is examined. Dr. Gorenstein. M W 1:10-2:25.
- V3005x. Peoples of Africa.**  
 Survey of African cultures, with intensive analysis of selected tribes and regions. Professor Skinner. M W 1:10-2:25.
- [V3006. Peoples of Southeast Asia. Not given in 1972-73.]**
- [V3007. Ethnology of Eurasia. Professor Denich. Not given in 1972-73.]**
- [V3008. Ethnology of North American Indians.**  
 Professor Rubel. Not given in 1972-73.]
- [V3009. Peoples of the Middle East.**  
 Professor Rosman. Not given in 1972-73.]

- V3010y. Native South America.**  
An introduction to the peoples and cultures of native South America, including: prehistory; ecology; social relations; belief systems; effects of the Spanish conquest; and the impact of modern change. Professor Johnson. Tu Th 3:10-4:25.
- V3011x. Social Organization.**  
The institutions and organization of social life, particularly in the non-literate societies. Kinship and locality in the structuring of society. Prerequisite: an introductory anthropology course. Professor Vincent. Tu Th 2:10-3:25.
- V3012x. Economic Anthropology.**  
Approaches to the study of resource allocation in production, consumption and distribution in tribal and peasant societies, with detailed analysis of illustrative ethnographic materials. Prerequisite: an introductory course, or permission of the instructor. Professor Johnson. Tu Th 1:10-2:25.
- V3026x. Socio-cultural Dimensions of Poverty.**  
A cross-cultural analysis and comparison of the effects of poverty on rural and urban populations. An investigation of the types of socio-cultural arrangement produced by poverty and its social and political implications. Professor Bond. M W 3:10-4:25.
- [V3027y. Culture and the Individual.**  
Professor Rosman. Not given in 1972-73.]
- V3029y. The Archaeology of the New World.**  
A survey of the prehistoric past of native American cultures from the time of the aboriginal settling of the New World by Asian immigrants to that of European contact. Special emphasis upon the rise of the New World civilizations in Mexico and Peru and the processes leading to their development. Prerequisite: a year of introductory anthropology. Dr. Stigler. M W 11-12:15.
- V3032x. The Archaeology of the Old World.**  
A survey of the principal areas of cultural development in Europe, Asia, and Africa from the earliest beginning of human culture to the dawn of the first civilization. Prerequisite: a year of introductory anthropology. Dr. Stigler. M W 11-12:15.
- V3033x. Sociolinguistics.**  
Geographical and social dialects; linguistic variation in the speech community; social evaluation of linguistic features; social problems of mutual intelligibility; linguistic change in progress. Mr. Attinasi. Tu Th 11-12:15.
- V3034y. Ethnolinguistics.**  
Language diversity, relativity; world view and grammatical categories; processes and problems of change; language evolution. Covert classificatory systems; ethnotaxonomy; men's and women's speech; baby talk; age grading; taboos and euphemisms; secret languages and linguistic play; nature of speech events; discourse analysis. Mr. Attinasi. Tu Th 11-12:15.
- [W3035x. Peasant Societies of Europe.**  
Professor Denich. Not given in 1972-73.]



- V3036x. Peasant Societies.**  
An introduction to pre-industrial agrarian social systems. Professor Cohen. Tu Th 11-12:15.
- [V3037y. Societies in Transition.** Not given in 1972-73.]
- [V3038x. Ethnic Relations in Changing Societies.**  
Professor Vincent. Not given in 1972-73.]
- [V3039y. The Asian Experience in the United States.**  
Professor Cohen. Not given in 1972-73.]
- V3042y. Religion in Anthropological Perspective.**  
Ideological systems of simple or preindustrial cultures. Relations between religion and other aspects of culture. Prerequisite: an introductory anthropology course. Instructor to be announced. Tu Th 2:10-3:25.
- [V3048x. Laboratory Techniques in Archaeology.**  
Not given in 1972-73.]
- V3050y. Field Archaeology.**  
Introduction to archaeological techniques and methods of excavation. Approximately seven field sessions, supplemented by classroom work. Students must pay for their transportation and food when on the trips. Prerequisite: permission of the instructor. Dr. Gorenstein. S 9-12.
- V3100y. Urban Societies.**  
Evolution of cities. A cross-cultural view of kinds of urban formations. Examinations within an anthropological context of various aspects of urban life. Prerequisite: an introductory anthropology course or permission of the instructor. Professor Denich. Tu Th 3:35-4:50.
- [W3200y. Colloquium on Methods of Anthropological Research.**  
Professor Rubel. Not given in 1972-73.]
- [V3310y. Culture, Causality and Individual Freedom.**  
Professor Harris. Not given in 1972-73.]
- Interdepartmental Course 1. Female and Male: An Interdisciplinary Approach. [7]**  
Professors Komarovsky, Ehrenfeld, . . . . ., and Mates. May not be counted toward major. See page 65.
- For Majors Only**
- 41. History of Anthropological Theory. [0]**  
Intellectual developments contributing to the formalization of anthropology as a discipline. The works of Montesquieu, Comte, Maine, Durkheim, and Marx will be considered, along with the theoretical writings of such anthropologists as Tylor, Morgan, Boas, Malinowski and Radcliffe-Brown. Required of all majors in their junior year. Professor Denich. Tu Th 10:35-11:50.
- 42. Junior Colloquium on Current Anthropological Theory. [0]**  
Intensive analysis of selected contemporary theoretical approaches and issues in anthropology. Required of all majors in their junior year. Prerequisite: Anthropology 41. Professors Vincent and . . . . . Meeting times of sections to be arranged.

**V3500y. Colloquium: Problems in Structuralism.**

Reading and research in anthropological theories of structuralism. Review of works of Claude Lévi-Strauss, Edmund Leach and others in relation to relevant work in linguistics, psychology, sociology and philosophy. Prerequisite: permission of the instructor. Professor Murphy. W 2:10-4.

**V3700y. Colloquium: Anthropological Research Problems in Complex Societies.**

Study of the local community and its relationship to regional and national societies. Discussion of plural societies, minority and ethnic groups in a cross cultural setting. Cases will be selected from Africa, Latin America, Asia, Europe, and North America. Professor Cohen. W 10-11:50.

**51-52. Anthropology Senior Seminar.**

[0]

Discussions and conferences on the researching and writing of the senior essay. Sec. 1, Professor Denich. Sec. 2, Professor Gorenstein. Sec. 3, Professor Klass. Sec. 4, Professor Vincent. Sec. 5, Professor ..... All sections meet M 2:10-4.

**Graduate Courses**

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



<i>Professor</i>	Barbara Novak (Chairman; 301B Barnard Hall)
<i>Adjunct Professor</i>	Brian O'Doherty
<i>Associate Professor</i>	Dorothea Nyberg
<i>Instructors</i>	Victoria Barr, Susan Koslow, Joseph Masheck, Jane Rosenthal
<i>Visiting Artist</i>	Adja Yunkers
	Officers of Columbia University giving instruction in Barnard College:
<i>Professor</i>	George R. Collins
<i>Assistant Professors</i>	William A. P. Childs, Ann Farkas, Ellwood C. Parry III
	Officers of Columbia University offering courses listed below:
<i>Professors</i>	Robert Branner, Howard McP. Davis, Edith Porada
<i>Adjunct Professor</i>	Eugene Raskin ( <i>Architecture</i> )
<i>Associate Professors</i>	Miyeko Murase, Dustin Rice, David Rosand, Allen Staley
<i>Assistant Professors</i>	Cornelius Chang, Esther Pasztory
<i>Instructor</i>	Eugene Santomaso
<i>Associate</i>	Rosemarie Bletter

Art is a unique form of human experience. A study of its history will often provide a surprisingly vivid insight into the intellectual currents, the religious doctrines and practices, and the social institutions of the past. The student will see to what extent the unfolding of art is determined by conditions existing outside it, and by the impetus given it by the great creative personalities. She will in consequence gain a deepened understanding of the art of our own time and an ability, often fully appreciated only after she has left college, to enjoy intelligently the great accumulation of art in museums all over the world.

Courses in the department of Art History are designed to take advantage of the resources of New York, one of the world's great centers of art. A limited number of studio courses are also offered at Barnard; in addition, students are encouraged to take any course for which they qualify in the Department of Painting and Sculpture, School of the Arts of Columbia University. See page 79, for regulations governing these courses. Studio courses do not count towards the major.

Students who want to major in Art History must take at least eight courses in the department. They should select a full-time member of the department as their adviser, preferably during their sophomore year and not later than the beginning of their junior year. They should plan their academic program in consultation with this adviser. The department strongly



suggests that majors take Course 1-2, and thereafter they must take at least one advanced course in ancient, medieval, renaissance, baroque and modern art, so as to be able to appreciate the variety of artistic expression in different countries and periods. At least four courses in the major should be Barnard courses. Students may register their major as art history with emphasis on architecture. Address inquiries regarding an architectural emphasis to Professor Nyberg; address inquiries regarding an art history major to Professor Novak.

Seniors in Art History are required to write a senior essay, the topic to be chosen in consultation with the appropriate officer of instruction no later than the beginning of the senior year. The essay must be turned in before the spring recess. Seniors must take either one seminar and one semester of individual research directed towards the essay or two seminars, in which case they may submit one seminar paper, expanded, as their senior essay.

Students planning to do graduate work should obtain a reading knowledge of at least two of the foreign languages in which the major contributions to the history of art have been made. (Most graduate schools require a reading knowledge of French and German; the department strongly recommends taking German while at Barnard.)

**The Program in the Arts:** Those students contemplating a career in studio art should see the announcement on the Program in the Arts, pages 53-55, and should consult with Professor Novak at the earliest possible time.

## 1-2. Introduction to the History of Art. [4]

A study of the art historian's method and a historical survey of Western architecture, sculpture, and painting. Emphasis will be given to the interpretation of form and content and the correlation of the visual arts with their respective cultural environments. Autumn Term: Greek and classical art, medieval art. Spring Term: Renaissance to modern art. Mrs. Rosenthal. M W 1:10-2:25.

## V3080x. Pre-Columbian Art.

A survey of the pre-Hispanic art of Mesoamerica, Central America, and the Andean region, from the earliest times to the Spanish Conquest. Professor Pasztory. Tu Th 2:40-3:55.

## W3056y. Art of Africa, Oceania, and North America.

A survey of traditional tribal art styles, with emphasis on aesthetic qualities, function, and historical relationships. Professor Pasztory. Tu Th 2:40-3:55.

- W4180y. Egyptian Art and Archaeology.**  
The principal monuments of Egyptian culture, from the beginnings of civilization in the fourth millennium B.C. to the conquest of Alexander the Great. Professor Farkas. Th 2:10-4.
- 48. Ancient Near Eastern Art. [7]**  
Ancient art as cultural history: a survey of the archaeological remains of the early civilizations of western Asia (Mesopotamia, Iran, Anatolia, Syria) from the beginnings of cities to the fall of the Persian Empire. Professor Farkas. Tu Th 10:35-11:50.
- W4173x. Anatolia and Syria-Palestine.**  
A survey of art and archaeology in the Middle and Late Bronze Ages. Professor Porada. Tu 4:10-6.
- 45. Greek Art and Architecture. [9]**  
An examination of the principal monuments and themes of Greek art in sculpture, painting, architecture, and city planning from the Mycenaeans to the Roman conquest. Professor Childs. Tu Th 2:10-3:25.
- V3250y. Roman Art and Architecture.**  
The architecture, sculpture, and painting of ancient Rome from the second century B.C. to the end of the Empire in the West. Professor Childs. Tu Th 2:10-3:25.
- 51, 52. Medieval Art. [13]**  
Autumn Term: Christian art from its beginnings in the late antique world in Mediterranean countries through the early Christian and Byzantine periods, with emphasis on mosaics and illuminated manuscripts, followed by the Celtic and Carolingian styles of western Europe. Spring Term: Romanesque sculpture and architecture of Italy and France, and Gothic architecture, sculpture, and painting, ending with the introduction of the Italian Renaissance into France. 51 is prerequisite to 52. Mrs. Rosenthal. Tu Th 3:35-4:50. Visits to the Metropolitan Museum of Art, the Pierpont Morgan Library, and the Cloisters.
- [53. Christian Iconography. Not given in 1972-73.]**
- [54. Byzantine Art. Not given in 1972-73.]**
- [V3140y. Imagery and Tradition in Western Art.**  
Professor Dynes. Not given in 1972-73.]
- W4352x. Romanesque Architecture**  
The architecture of Western Europe from the tenth to the twelfth centuries. Professor Branner. W 2:10-4.
- [61. European Architecture from the Renaissance through the Rococo Style.**  
Professor Nyberg. Not given in 1972-73.]
- [V3420x. Italian Sculpture during the Renaissance. (formerly A. H. 63)**  
Professor Beck. Not given in 1972-73.]
- C3633x. Italian Renaissance Painting.**  
Painting in Italy from the revival of painting in the late thirteenth century to the early sixteenth century. Emphasis on the Early Renais-

sance and on a close analysis of the works of Giotto, Masaccio, and Piero della Francesca. The High Renaissance is discussed less fully, with stress on Leonardo da Vinci and Michelangelo and their role in the continuity of tradition. Professor Davis. Tu Th 11-12:15.

**[C3107y. Italian Painting of the Sixteenth Century.** Not given in 1972-73.]

**60. Sixteenth Century Painting in Northern Europe. [7]**

Renaissance, Gothic, and Realistic trends will be considered in a survey of painting in the Netherlands and Germany with stress on Dürer, Grünewald, Cranach, Bosch, van Orley, Aertsen and Bruegel. Mrs. Koslow. Tu Th 10:35-11:50.

**C3688y. Northern European Painting.**

Renaissance humanism and realism, the tradition of satiric imagery and the emergence of the Baroque, particularly in Flanders and Holland, with emphasis on Jan van Eyck, van der Weyden, Bosch, Bruegel, and Rembrandt. Professor Davis. Tu Th 11-12:15.

**75, 76. European Painting since the Renaissance. [7]**

Autumn Term: Baroque and Rococo. Painting in Italy, France, England, Flanders, Holland, and Spain from 1600 to the middle of the eighteenth century with emphasis on Caravaggio, the Carracci, Poussin, Rubens, Rembrandt, Velasquez, Watteau, Hogarth, and Tiepolo. Spring Term: Neoclassicism, Romanticism, Realism, Impressionism, and Post-Impressionism. Painting from the late eighteenth century to 1900. Emphasis will be on the developments in France, from David to Cezanne and Seurat, but with attention to Goya, Constable, and Turner as well. Mr. Masheck. Tu Th 10:35-11:50.

**[V3500. Seventeenth Century Art.**

Professor Hibbard. Not given in 1972-73.]

**57, 58. Baroque Art in Northern Europe. [3]**

Autumn Term: The development of Baroque style in the works of Rubens, van Dyck and Jordaens. The Real and the Imaginary will be considered in the works of minor masters. Spring Term: A study of the specialties of Dutch painting: landscape, still-life, genre and architectural painting. Emphasis on the Utrecht School, Hals, Rembrandt and Vermeer. Mrs. Koslow. M W 11-12:15.

**V3748y. European Painting in the Eighteenth Century.**

The Rococo, Neo-Classic, and Romantic styles. Emphasis on new styles and subjects appearing between 1750 and 1800 and their relation to the contemporary cultural and social background. Professor Staley. Tu Th 2:10-3:25.

**69. French Architecture 1500-1800. [13]**

The cohesive tradition of French architecture with major emphasis on such figures as Delorme, Salomon de Brosse, Lemercier, Mansart, Le Vau, Perrault, Hardouin-Mansart, Meissonnier, Servandoni, and Soufflot. Professor Nyberg. Tu Th 3:35-4:50.

**70. European and American Architecture from the Eighteenth Century to the Present. [9]**

The development of Neoclassical architecture in eighteenth century Europe and its influence on American architecture; the interaction of



historic styles and new structural techniques in the nineteenth century; Louis Sullivan and the development of the skyscraper; finally, American and European architecture of the twentieth century. Professor Nyberg. Tu Th 2:10-3:25.

**74. Art and Architecture of Great Britain and Ireland. [2]**

Painting, sculpture, and architecture in the British Isles from the Elizabethan age to modern times. Some consideration of relations with the Continent, and the effects of nationalism and colonialism. Emphasis on such major figures as Jones, Wren, Burlington, Hogarth, Adam, Blake, Constable, Ruskin, and Morris, and on British contributions to modernism in painting and sculpture. Mr. Masheck. M W 10:35-11:50.

**77. American Art from Colonial Times to the Armory Show. [10]**

The development of the arts in America from Colonial times to the Armory Show of 1913 with special emphasis on Realism and Romanticism in the nineteenth century. Open to all except freshmen. Professor Novak. M W 3:10-4:25.

**79. The Arts in Spain from the Golden Age to the Present. [5]**

A discussion of the major figures, monuments, movements, and styles in Spanish art and architecture from ca. 1500 to the present. Emphasis on the distinctive Spanish nature of the arts and their relation to other aspects of the culture and history of the Peninsula. Pre-requisite: a reading knowledge of Spanish. Professor Collins. M W 2:40-3:55.

**62. Photography and the Arts. [4]**

Survey of the interrelationship of artistic and photographic vision from the early nineteenth into the twentieth century. Landscape, still life, and portrait images by major artists and photographers in Europe and America. Professor Parry. M W 1:30-2:45.

**[C3681. American Art in the Twentieth Century. Not given in 1972-73.]**

**C3833x. Modern Architecture.**

Tendencies in twentieth-century architecture and city planning as related to other cultural developments. Origins of the modern movement in the stylistic and technological developments of the nineteenth century. Major contemporary contributions. Mr. Santomaso. M W 2:10, and F 1:10.

**V3662y. Cities and Planning.**

Characteristic forms of cities since ancient times. Analysis of the purpose and meaning of forms of preplanning that have been suggested, especially since the Renaissance. Professor Collins. M W 12-1:15.

**Architecture The Architect in Society.**

**C3150x.**

A review of the practice of architecture from ancient times to the present. The impact of communal living on the design of structure for organized society. Present practices and future prospects. Professor Raskin. M W 1:10, and third hour to be arranged.

**84. (English 84). The Vernacular in the American Arts of Design [10]**

The conflict between the "cultivated" and "vernacular" styles. The development of an American aesthetic in technology, architecture, fine arts, literature, and other arts. Professor Kouwenhoven. W 3:10-5:25.

**78. Introduction to Painting and Sculpture of the Twentieth Century.** [5]

A summary of the principal stylistic developments of the period in question through presentation and discussion of selected artists and their work. Emphasis will be placed on the movements of Fauvism and Expressionism, Cubism, Dada, and Surrealism, as well as on post-war developments in Europe and America. Professor Novak. M W 2:30-4.

[94. **Art of India.** Not given in 1972-73.]

**V3201x. Arts of China. (formerly A. H. 91)**

A survey of Chinese art from the Neolithic to the last dynastic period of Ch'ing, with emphasis on bronzes, Buddhist art, and great landscape painting of the Sung and later periods. Attention also to the arts of Central Asia and India as they affect the arts of China. Professor Chang. Tu Th 4:10-5:25.

**V3203y. Arts of Japan. (formerly A. H. 92)**

A survey of the development of Buddhist art and architecture in Japan as they were introduced from China, including the arts of later periods, with special emphasis on the formation of indigenous art forms such as narrative scroll-painting, decorative screens, and wood-block prints. Professor Murase. Tu Th 4:10-5:25.

## Seminars

[80. **Landscape in American Art and Photography.**

Professor Parry. Not given in 1972-73.]

**C3974x. Seminar in Prints and Drawings.**

Style and function in drawing from the fifteenth century to the present and the development of printmaking as an expressive medium. Several meetings are held in the Metropolitan Museum print study room. Prerequisites: junior standing and permission of the instructor. Professor Rosand. W 10-11:50.

[C3979. **Seminar on Romanticism.**

Professor Staley. Not given in 1972-73.]

[C3977. **The Portrait in Modern Art.**

Professor Comini. Not given in 1972-73.]

**C3982y. Dada and Surrealism.**

Intensive examination of the movements in Europe and America. Oral and written reports as well as the creation of works of art under the instructor's guidance. Prerequisites: Junior standing and permission of the instructor. Professor Rice. M 2:10-4.

[C3955x. **(German C3955x). Seminar in German Expressionist Film and Art.**

Mrs. Bletter. Not given in 1972-73.]

**C3975x. Seminar on the Bauhaus.**

An exploration of the Bauhaus' total approach to art which included painting, sculpture, architecture, crafts, photography, graphic and industrial design, and theater arts. Among the major figures to be studied are Paul Klee, Wassily Kandinsky, Lyonel Feininger, Walter Gropius, and Ludwig Mies van der Rohe. Prerequisite: junior standing and permission of the instructor. Mrs. Bletter. W 4:10-6.

- 81, 82. The Literature of Art.** [0]  
 Study of the literary sources used in art historical research; artists' letters, journals and treatises (by Leonardo, Rubens, Delacroix, Van Gogh), contemporary biographies (Vasari and Van Mander), the ideas and writings of leading critics and scholars (Fromentin, Baudelaire, Ruskin, the Brothers Goncourt, Huizinga, Burckhardt, Wolfflin, Worringer, Berenson, Fry, Panofsky, Gombrich, Read, Malraux). The Autumn Term will be devoted largely to writings of the artists and their contemporary critics. The Spring Term will be devoted to theories of modern criticism and scholarship. Intended for junior majors but also open to senior majors. Autumn Term: Professor Novak. M 10-11:50. Spring Term: Mr. Masheck. M 1:10-3.
- 90. The Altarpiece: Special Problems in Devotional Imagery.** [0]  
 Types, programs, iconography and liturgical functions of altarpieces will be considered. Emphasis will be placed on the developments in the Netherlands in the fifteenth century, but Italian, German and Spanish types will also be studied. Mrs. Koslow. W 1:10-3.
- 86. Seminar in Art Criticism.** [0]  
 An examination of modes of contemporary criticism with reference to current exhibitions and writings. Students will be required to engage in criticism of museum and gallery exhibitions. Attention will be given particularly to problems of language and opinion. The work of critics from Baudelaire on will be examined in its historical context and for its possible relevance to the present. Professor O'Doherty. F 10-11:50.
- 71. Problems of Style.** [0]  
 After a common consideration of the nature of style, and of art historical periodization, students will present reports applying these notions to materials from the history of design. Topics include architectural ornament, the porcelain factories of the eighteenth century, iron bridges, and early industrial design. Attention to quality of workmanship and other aesthetic judgments and to the place of such works in art history. Mr. Masheck. W 10-12.
- C3976y. The Image of the Indian and the Black Man in American Art.**  
 Discussion of general themes and analysis of specific representations of Indians and Black men in American art. Shifts in artistic attitude to be treated within the larger context of changes in style based on European traditions. Prerequisites: Junior standing and permission of the instructor. Professor Parry. M 4:10-6.
- C3666y. Architecture since 1945. (formerly 96)**  
 Analysis of recent architectural theory and design based upon primary source materials. Topics include the work of Frank Lloyd Wright, LeCorbusier, Aalto, Kahn, Venturi, Moore, Team 10, and such visionaries as Buckminster Fuller, Archigram, the Metabolists, Soleri, and others. Readings, class discussions, and written reports. Prerequisite: Art History C3833 or comparable course; junior standing and the instructor's permission. Mr. Santomasso. Tu 4:10-6.
- [97. Art and Propaganda.** Not given in 1972-73.]
- 98. Social and Political Functions of Architecture.** [0]  
 Topics include religious architecture, funeral monuments, the architecture of kingship and of the French and American republics. Professor Nyberg. W 9:10-10:50.



**99x, 99y. Independent Research for Seniors.**

Independent research for the senior essay, under a chosen faculty adviser. Hours to be arranged.

**Studio Courses**

A maximum of four courses of studio work may be credited. Studio courses are graded pass/fail. Columbia courses or sections which offer only 2 points do not count for Barnard credit. Students taking more than two courses of studio work are required to validate the additional credit courses in art history. Studio courses 3, 4 and 5, 6 are given at Barnard and no special permission is needed to take those courses.

**3, 4. Studio Painting.**

[0]

Studio course in painting with acrylic and oil. Supplementary instruction in drawing and the use of color. Emphasis is on individual development. Miss Barr. Tu Th 2-5.

**5, 6. Advanced Drawing and Painting.**

[0]

A course designed to teach students basic skills by setting specific tasks to be executed both in drawing and in painting. Occasional use of life models. Limited to fifteen students. Mr. Yunkers. M W 3-6.

The remainder of studio courses are given at the School of the Arts, in Dodge Hall, and students may register for these only with written permission of the departmental representative (Professor Andre Racz). For further details see the Bulletin of the School of the Arts. Credit for the following: one course each term.

**Drawing R1001x, R1002y; R1003x, R1004y. Drawing Workshop.**

Model Fee: \$10 per term. Professors Goldin, and Racz, and Messrs. Lund and Stewart. Section I M W 9-11:50. Section II M W 1:10-4. Section III Tu Th 1:10-4. Section IV M W 7:10-10. Section V Tu Th 7:10-10.

**Painting R1011x, R1012y; R1013x, R1014y. Painting Workshop.**

Model Fee: \$10 per term. Professors Goldin and Heliker, and Mr. Stefanelli. Section I M W 1:10-4. Section II Tu Th 1:10-4. Section III M W 7:10-10. Section IV Tu Th 7:10-10.

**Printmaking R1041x-R1042y. Woodcut and Wood Engraving.**

Laboratory Fee: \$20 per term. Mr. Uchima. M W 7:10-10.

**Printmaking R1043x-R1044y. Etching and Engraving.**

Laboratory Fee: \$20 per term. Professor Harrison. Section I Tu Th 1:10-4. Section II Tu Th 6:10-9.

**Printmaking R1045x-R1046y. Lithography and Drawing.**

Laboratory Fee: \$20 per term. Mr. Blackburn. M W 1:10-4.

**Sculpture R1023x-R1024y. Sculpture Workshop.**

Model Fee: \$20 per term. Miss Linder. Section I Tu Th 1:10-4. Section II Tu Th 7:10-10.

**Sculpture R1025x-R1026y. Carving and Design.**

Laboratory Fee: \$20 per term. Miss Arnold. M W 7:10-10.

**Sculpture R1027x-R1028y. Welding and Design.**

Laboratory Fee: \$25 per term. Mr. Adzema. Section I M W 9-11:50.  
Section II M W 1:10-4.

**Graduate Courses**

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



<i>Professors</i>	William A. Corpe, Donald D. Ritchie <sup>1</sup> (Chairman; 1205 Altschul Hall)
<i>Associate Professors</i>	Patricia L. Dudley, David W. Ehrenfeld, Frederick E. Warburton
<i>Assistant Professor</i>	Patricia N. Farnsworth
<i>Instructor</i>	James A. Schmid
	Officers of Columbia University offering courses listed below:
<i>Professors</i>	Sherman Beychok, James E. Darnell, Cyrus Levinthal, Frank G. Lier
<i>Associate Professors</i>	Walter J. Bock, Eric Holtzman, Alberto L. Mancinelli
<i>Assistant Professors</i>	F. Carter Bancroft, Lawrence A. Chasin, Thomas G. Ebrey, Michael J. Schneider, Ronald R. Sederoff, James A. Wechsler

<sup>1</sup> Absent on leave, Spring Term.

The major program is designed to serve a variety of needs. Some students interested in general education major in biology because they desire specific knowledge of living organisms. Other students specialize in biology in anticipation of graduate work in this field, or in preparation for medical or dental school. Still others plan a career in government, educational or private research organizations, or they may wish to teach at the elementary or intermediate school level.

The sequence of courses to be followed depends on the ultimate aims of the student and is planned in consultation with members of the department. Planning of the course sequence in biology and related fields is necessary to provide a balanced program and to assure that prerequisites for advanced courses are completed in time.

Course 1-2 should be elected by those students who had a standard biology course in high school, as well as by those who have had no previous training in biology. Some courses taken outside the department may be counted toward a biology major: Anthropology V3201x, Chemistry C3072y, and Psychology 17.

If given special permission, qualified students may take courses offered in the graduate school. They should consult the Bulletin of The Graduate School of Arts and Sciences and their major advisers.

Three or four chemistry courses, chosen in consultation with an adviser, fulfill the minimum requirements in chemistry for graduate work in biology and for entrance into medical school, and this amount is generally regarded as the minimum for biology majors as well. Students interested in ecology or evolution should take Geology V1021x and V1022y. A year of



general physics, 3-4, should be taken by majors who plan on graduate work or a career in medicine. Graduate work in biology requires a knowledge of German and French (or some other modern language). College mathematics, including calculus, is strongly recommended.

The Undergraduate Record Examination is given as the major examination. Students are encouraged to do summer work in biological laboratories or field stations. Assistance toward such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund or the Herbert Maule Richards Fund.

Research projects may be selected by students desiring to do individual work. They are usually related to current faculty research and may lead to professional publication. Greenhouse space and laboratory equipment are made available for such projects.

#### **1-2. General Biology.**

**[1]**

The development of biological knowledge, with emphasis on unsolved problems and the nature of scientific evidence; energy relations of living things, cellular activities, inheritance, development and differentiation, evolution, ecology, and social implications. Professors Ehrenfeld, Farnsworth, and Ritchie. Lec. M W F 9. Lab. (3 hours) M 1:10-4; Tu 9-11:50; 2:10-5; W 1:10-4; Th 9-11:50; 2:10-5; F 1:10-4.

#### **C1007x. General Biology**

1. Molecular biology, with emphasis on bacteria and viruses. The synthesis of large and small molecules, enzyme mechanisms and various aspects of genetics and cellular control of synthesis. 2. Evolution of more complicated processes in simple multicellular organisms; structure and function of organelles in cells of higher organisms; general problems of development. 3. Higher organism physiology, with emphasis on man. 4. Evolution and the principles of classification of plants and animals; the origin of life on earth. Prerequisite: one term of calculus, and an introductory course in chemistry, or permission of the instructor. Professors Bancroft and Darnell. Lec. M W F 11. Rec. 2 hours to be arranged.

#### **C1008y. Project Laboratory in General Biology.**

A project laboratory course in molecular biology, with emphasis on DNA, RNA, and protein syntheses and their control. Part I: fundamental principles and techniques of molecular genetics. Students repeat selected experiments utilizing all basic techniques. Part II: students carry out an experiment which they have designed in consultation with the instructor. Prerequisite: C1007, or C1401 and one 3000 level course, and permission of the instructor. Limited to approximately 20 students. Professor Wechsler. Lab: 8 hours to be arranged.

#### **4. Natural History of the New York Area.**

**[0]**

Field observations of plants, fungi, birds, lower invertebrates, and insects. Methods of identification, collection, preservation. Visits

to nearby semi-wild regions and to areas severely altered by human activity. Written permission of the instructor required. Professors Dudley, Ehrenfeld, Ritchie, and Warburton. Field trips, laboratory, and discussions. Hours to be arranged. One course credit, part in Autumn and part in Spring Term.

5. **Introduction to Genetics, B.** [8]  
Mendelian and quantitative genetics of plants, animals, and man: segregation, recombination, measurement of linkage, and the genetics of continuous variation. Cytogenetics. Developmental genetics. Population genetics and evolution. Human genetics will be emphasized where it exemplifies general principles. Prerequisite: a course in introductory biology; calculus or statistics, or permission of the instructor. Professor Warburton. Lec. Tu Th 11. 1 hour recitation and demonstration.
6. **Evolution.** [1]  
The modern theory of evolution; the genetic and ecological mechanisms which adapt organisms to their environments and increase the diversity of species. Prerequisite: Biology 1-2 or equivalent. Professor Warburton. Lec. M W F 9. Laboratory-conferences (4 hours) to be arranged.
7. **Invertebrate Zoology.** [8]  
The biology of invertebrate animals: Comparative fine and gross structure, development, physiology and autecology. Major emphasis on marine invertebrates. Laboratory-demonstration includes a survey of major groups and an individual project on the ultrastructure, physiology, or ecology of an invertebrate animal. Prerequisites: a year of college-level biology and permission of the instructor. A course in cell biology is recommended. Professor Dudley. Lec. Tu Th 11. Lab/demonstration (4 hours) M 1:10-5 or Th 2:10-6.
8. **Physiological Ecology.** [4]  
The interactions of invertebrate and vertebrate animals with their physicochemical environment. Comparative physiology of responses to varying environmental stimuli; the concept of the niche; dynamics of population structure and oscillations; competition, cooperation and other interspecies interactions; ecological energetics. Prerequisites: a year of college-level biology and permission of the instructor. A course in general chemistry is recommended. Professor Dudley. Lec. M W F 1:10.
10. **Microbiology.** [5]  
General and applied aspects of microbiology with emphasis on microbial ecology. Factors influencing distribution, population density, natural selection. Interaction of microorganisms and macroorganisms; functions of microbes in biochemical cycles; distribution of microorganisms and their importance in aquatic, terrestrial, and human environments. Prerequisite: 1 year of college biology, general chemistry and permission of the instructor. Professor Corpe. Lec. M W 2:10. Lab. M W 3:10-5.
- [12]. **Cytology.**  
Professor Ritchie. Not given in 1972-73.]
13. **Biological Conservation.** [3]  
The conservation of natural communities and species. Emphasis will be placed on the influence of human population increase and the

growth of technology on the current bio-environmental crises. The interaction between ecological theory and conservation practice will be stressed. Limited to 30 students. Prerequisite: a year of biology and permission of the instructor. Professor Ehrenfeld. Lec. M W F 11 and conf. to be arranged.

- Interdepartmental Course 1.** **Female and Male: An Interdisciplinary Approach.** [7]  
Professors Komarovsky, Ehrenfeld, . . . . ., and Mates. May not be counted toward major. See page 65.
- 14. The Geography of Flowering Plants and Plant Communities.** [9]  
World vegetation types; communities in eastern North America; classifying and mapping ecosystems; problems of generalization, both geographic and biological. Prerequisite: one year biology or geography with laboratory, or permission of the instructor. Short papers, midterm, final examination. Mr. Schmid. Lec. Tu Th 2:10-3:25.
- 15. Cellular Physiology.** [4]  
An interpretation of vital phenomena at the cellular level in terms of known laws of physics and chemistry. Topics to be discussed will include the functional organization of cells; the relation of cells to their environment; molecular biology and physiology of membranes; bio-energetics; and the irritability and contractility of cells. Permission of the instructor required. Professor Farnsworth. Lec. M W 1:10 and Conf. F 1:10. Lab. (4 hours) to be arranged.
- 16. Physiology of Multicellular Organisms.** [4]  
An interpretation of vital phenomena on the organ level. Topics to be discussed include the major body systems and their functional relationships. Permission of the instructor required. Professor Farnsworth. Lec. M W 1:10-2. Conf. F 1:10-2. Lab. hours to be arranged.
- 17. The Interaction of Plants and Urban Men.** [6]  
Ecosystems of the New York region as affected by human activity, viewed through vegetation; ecological factors and plant distribution; deciduous forests and pine barrens; survival of native species under increasing disturbance; changes in habitat factors; plants used by man; origins of agriculture and urbanism; weeds. Field identification of common plants. Field trip reports, short papers, term paper, midterm, final examination. Mr. Schmid. Lec. T Th 9:10-10:25. Lab: Sundays, 4 hours to be arranged.
- 18. Vegetational Management in Cities.** [6]  
Man and nature in the urban environment; "ecology" in natural and social sciences; European background of American vegetational planning; the Romantic landscape; "rural" and other cemeteries; "landscape" and other parks; college campuses; suburbs and their evolution; planning the future of urban vegetation. Short papers, final examination. Mr. Schmid. Lec. T Th 9:10-10:25. Five Sunday field trips in the New York region.
- 20. Laboratory in Animal Behavior.** [0]  
Lab. techniques of animal behavior. Initial general exercises and individual projects. Orientation, thermoregulatory behavior, biological clocks, feeding behavior, and social behavior including reproductive behavior, effects of crowding, etc. Prerequisites: a year



of college biology with laboratory and permission of the instructor. Professor Ehrenfeld. Discussion M 2:10. Laboratory hours to be arranged.

**W3002y. Structure and Function of Animals.**

Introduction to animal form and function, using vertebrates as examples, with emphasis on the comparative and evolutionary approaches. Interrelationship between the form-function complex and the environment of the organism; different morphological solutions to the same environmental problem. Laboratories include dissections of vertebrate structure and the analysis of its function. Prerequisite: an introductory course in college biology. Recommended preparation: one year of college physics. Professor Bock. Lec. M W F 9. Labs. Sec. 1: M 1:10-5. Sec. 2: M 6:10-10. Sec. 3: W 1:10-5. Sec. 4: Th 1:10-5. Sec. 5: F 1:10-5.

**W3022x. Developmental Biology.**

An introduction to problems in developmental biology stressing the experimental evidence supporting classical observations and current hypotheses concerning the regulation of morphogenesis and cell differentiation. Recommended preparation: genetics. Prerequisite: an introductory course in biology and written permission of the instructor. Prerequisite or corequisite: organic chemistry. Instructor to be announced. Tu 11-12:15, Th 11-12:30.

**C3032y. Introduction to Genetics, A.**

Fundamental mechanisms and principles of genetics. Topics include the molecular mechanisms of mutation, recombination and differentiation; the genetic code; genetic control of morphogenesis; extrachromosomal inheritance; chromosome structure and function; and chromosomal mechanics. Prerequisite: an introductory course in college biology. Professor Sederoff. Lec. M W 1:10-2:25. Required Rec. F 1:10.

**W3040x. Laboratory in Cell and Developmental Biology.**

Lectures cover material to be studied in the laboratory such as histology, sequences of developmental phenomena in selected organisms and techniques. The laboratory provides an introduction to basic materials and techniques in cell and developmental biology plus research project experience. Each laboratory section will be limited to 22 students. Sign-up sheets for sections will be posted outside the departmental office. Prerequisite or corequisite: two terms of biology and a college-level chemistry course with laboratory. Recommended preparation: a course in cell biology or developmental biology. It is suggested that the student have taken or be in the process of taking a course in organic chemistry. Miss Arnold, Professor Holtzman, Mr. Rubin and Staff. Lec. Tu 12:30-1:20. Lab. Section I Tu 2:10-6, Section II W 4:10-8, Section III Th 1:10-5. Additional hours for each section to be arranged.

**W3041y. Cell Biology.**

An introduction to cell biology stressing the relations of cell structure to physiology and heredity, and the experimental and observational bases of present views of the cell. Prerequisite: one year of biology or a comparable background and written permission of the instructor; organic chemistry, preceding or parallel. Professor Holtzman. Tu 11-12:15 and Th 11-12:30.

**C3044y. Project Laboratory in Cell Culture.**

A project laboratory course featuring instruction in techniques

involving growth of individual mammalian cells, selection of mutants, and fusion of cells of differing genotypes, followed by experimentation in the biochemical genetics of mammalian cells. Limited to approximately 20 students. Prerequisite: Biology C3032, or W3041, or Biology-Chemistry C3501, and permission of the instructor. Professor Chasin. Lab.: 8-12 hours to be arranged.

**W3092y. Urban Ecology.**

Physical and biological problems created by urban man. Consequences of population growth and urbanization, the rising demand for power, and the increased exposure of man to synthetic chemical compounds, considered in terms of resource utilization, health effects, and climatic modification. Overcrowding, urban transportation, and noise pollution. Student debates and guest lecturers. Prerequisite: One 3000 level science course, or permission of the instructor. Messrs. Honig and Broecker. Tu Th 1:30-2:25.

**[W3231x. Microanatomy of Seed Plants. Not given in 1972-73.]**

**W3241x. Structure and Interactions of Plant and Animal Communities.**

Plant and animal communities in terms of the ecosystem concept. Topics include energy interchange, biogeochemical cycling, limiting environmental factors and ecological regulation. Prerequisite: one course in college biology. Professor Lieber. Tu Th 4:10-5:25.

**Biology-Chemistry C3501x.**

**Biochemistry I.**

Chemistry and metabolism of amino acids, carbohydrates, lipids, purines, pyrimidines and of the macromolecular constituents of living systems. Elementary thermodynamics in biochemical equilibria. Enzymes and proteins in respiration. Introduction to some well-established relationships between structure and function of the biological macromolecules. Prerequisite: one year each of biology and organic chemistry. Prerequisite or corequisite: physical chemistry. Professor Beychok. M W F 10. Required Rec. one hour to be arranged.

**61, 62. Problems in Biology. [0]**

Independent work will be planned to suit the needs of the student after consultation with the instructors. Staff. Hours and credit by arrangement.

**71. Senior Seminar. [0]**

Reading of literature and discussion of fundamental problems of zoology. Professor Warburton. Hours by arrangement.

**G4061x. Biology of Microorganisms.**

Morphology and chemical, physical, and antigenic structure of microbial cells; growth, general physiology, genetics, and mechanisms of metabolic control; aspects of pathogenicity and immunity to disease. Prerequisites: one year college biology, one course in biochemistry, and permission of the instructor. Professor Corpe. Lec. Tu Th 2:10.

**G6062y. Advanced Microbiology.**

Nature, function, and biosynthesis of ultrastructural components of microbial cells. Selected topics of current importance in bacterial physiology. Prerequisite: G4061x or the equivalent and permission of the instructor. Professor Corpe. Lec. Tu Th 2:10. Lab. Tu Th 3:10-5, and one hour to be arranged.

<i>Professor</i>	Edward J. King (Chairman; 802 Altschul)
<i>Associate Professor</i>	Bernice G. Segal
<i>Assistant Professors</i>	Jacqueline I. Kroschwitz, Alexander R. Mazziotti
<i>Lecturer</i>	Grace W. King
<i>Assistants</i>	Barbara Goodstein, Olympia Jebejian, Libby Miller

Chemistry majors seek to understand the nature of substances and their transformations. Upon graduation, some chemistry majors obtain research positions in chemical industry and medical laboratories. Others become technical writers or editors or science librarians. Many continue with graduate work in chemistry or related sciences or enter medical and other professional schools.

A student who is interested in chemistry should consult a representative of the department for advice in planning her program. In the first year she should take Courses 1 or 11 and 30 and start or continue the study of calculus. It is then possible for her to fulfill the basic requirements for the major in three years and to take advanced courses in the senior year. Students who have taken an Advanced Placement Course in secondary school may be given advanced placement and credit if they obtain a score of 4 or 5 on the examination and present evidence of satisfactory laboratory experience. A list of major requirements, several possible course sequences, and information about the major examination may be obtained from members of the department. Majors who complete a specific program receive an accrediting certificate from the American Chemical Society.

Students with a strong interest in biochemistry should supplement the basic chemistry courses with courses in biology and one or more of the university courses in biochemistry, e.g., Biology-Chemistry C3501x (see Biological Sciences listing).

The new laboratories of the department are modern and well equipped both for course work and for independent projects. Experience with modern instruments begins in the first-year course. Students may undertake independent projects under the guidance of members of the department. This has been done recently during both the academic year and the summer, and some of the work has been published in chemical journals. Short projects may also be undertaken in several of the courses of the first three years.

Variable amounts of laboratory work are possible in several courses, as noted in the course listings. One four-hour laboratory per week counts as a laboratory unit; two such units count as



one course credit. Chemistry majors take at least four laboratory units distributed between Courses 38, 61, and 68.

1. **General Chemistry IA.** [6]  
The particulate nature of matter in various states. Chemical transformations of matter, especially of ionic substances. Chemical kinetics, energetics, and equilibrium. Laboratory experience with both qualitative and quantitative techniques. Professor King, Dr. King, and assistants. Lec. Tu Th 9:10-10:25. Recitation and laboratory, one afternoon: M, Tu, W, or Th 1:10-5.
2. **General Chemistry II.** [6]  
Atomic and molecular structure. The chemistry of carbon compounds. Giant molecules. Biochemical reactions. Primarily for majors in fields other than science. Prerequisite: Course 1 or 11 or permission of the instructor. Professor Mazziotti, Dr. King, and assistants. Lec. Tu Th 9:10-10:25. Recitation and laboratory, one afternoon: M or Tu 1:10-5.
11. **General Chemistry IB.** [6]  
Covers the same material as Course 1 but with greater emphasis on the theoretical and mathematical aspects. Prerequisite: superior preparation in either chemistry or physics and either some prior exposure to calculus or coregistration in a calculus course. Professor Segal, Dr. King, and assistants. Lec. Tu Th 9:10-10:25. Laboratory, one afternoon: M, Tu, W, or Th 2:10-5. Recitation hour to be arranged.
30. **Organic Chemistry I.** [6]  
Atomic and molecular structure. An introduction to aliphatic and aromatic chemistry with emphasis on modern theories. Laboratory work stresses acquisition of basic techniques. Prerequisite: Course 1 or 11. Professor Kroschwitz and assistant. Lec. Tu Th 9:10-10:25. Laboratory, one afternoon: M, Tu, W, or Th 1:10-5.
31. **Organic Chemistry II.** [3]  
More advanced aspects of organic chemistry and an introduction to biological macromolecules. Required for biology majors and pre-medical students. Prerequisite: Course 30. Professor Kroschwitz. Lec. M W F 11.
32. **Intermediate General Chemistry.** [3]  
Selected aspects of general chemistry, primarily for premedical students without the background for Chemistry 36 or 59. Thermochemistry, chemical equilibrium, complex ions and coordination compounds, and nuclear chemistry with applications to analytical chemistry and biochemistry. Optional parallel laboratory work: one afternoon under Chemistry 38. Prerequisite: Organic Chemistry II. Professor King. Lec. M W F 11.
33. **Intermediate Chemistry Laboratory I.** [18]  
An introduction to qualitative and quantitative organic analysis and to advanced techniques, including instrumental and chromatographic methods, with a library problem and a short project. Majors must take this course, but it is not required by all medical schools. Prerequisite: Course 30. Professor Kroschwitz and assistant. Lec. Th 1:10. Laboratory two afternoons: Tu Th 1:10-5.

**36. Chemical Dynamics. [3]**

An introduction to chemical kinetics, the laws of thermodynamics, and electrochemistry with applications to analytical chemistry and biochemistry. Required of chemistry majors and suitable also for premedical and biological science students. Prerequisites: Course 30, Calculus I and II, and preceding or parallel, Physics 3-4. Recommended parallel: Course 38. Professor Segal. Lec. M W F 11.

**38. Intermediate Chemistry Laboratory II. [18]**

Quantitative techniques in volumetric analysis, radiochemistry, spectrophotometry, and pH measurement. Biochemical applications are included and some experience with computer programming is provided. Required of chemistry majors and suitable also for premedical and biological science students. Prerequisite: Course 59 or corequisite: Course 36. Professor King and Dr. King. Laboratory one or two afternoons: Tu Th 1:10-5.

**59. Introduction to the Physical Chemistry of Biochemical Systems. [3]**

Selected aspects of thermodynamics, kinetics, and electrochemistry with emphasis on applications to biochemical systems. Intended for premedical and biological science students. Prerequisites: Organic Chemistry II, Calculus I and II, Physics 3-4, or the equivalents. Recommended laboratory: Course 38. Professor King. Lec. M W F 11.

**61. Physical Chemistry I. [2]**

Atomic and molecular structure with an introduction to quantum mechanics. Spectroscopy. Crystals and symmetry with an introduction to the use of group theory. Optional laboratory experience with various types of spectroscopy. Prerequisites: Course 30, Physics 3-4, and Calculus III. Calculus IV is recommended. Professor Mazziotti. Lec. M W F 10. Laboratory W 1-5.

**62. Physical Chemistry II. [2]**

Kinetic theory of gases. Transport processes. Statistical thermodynamics, entropy and the third law, partition functions, equilibrium. Theories of chemical kinetics and solutions. Prerequisites: Course 30, Physics 3-4, and Calculus III. Courses 36 and 61 and Calculus IV are recommended. Professor Mazziotti. Lec. M W F 10.

**68. Advanced Chemistry Laboratory. [0]**

Preparation and characterization of inorganic and organic compounds. Construction and characteristics of electronic circuits of instruments. Instrumental methods of analysis. Prerequisite: Course 38. Professor Segal. Laboratory one or two afternoons: M W 1:10-5.

**87, 88. Problems in Chemistry. [0]**

Advanced individual laboratory projects for students who have completed the major requirements. Professors King, Kroschwitz, Mazziotti, and Segal. Eight hours by arrangement.

**Graduate Courses**

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

**Breakage Charges**

No charge is made for use of apparatus and materials in the chemistry laboratories. Payment will be expected for breakage in excess of \$10 per course.

**Dance Faculty** Jeanette Roosevelt, *Program Coordinator*; Sandra Genter, *Workshop Director*; Gay Delanghe, Linda Lerner, Janet Soares

Through its physical education program, Barnard College offers studio classes in modern dance, ballet, and jazz, as well as in general folk dance.

There is also within the physical education program a body movement workshop, based upon Laban's Effort-Shape Theory, which emphasizes kinesthetic perception and range of movement possibility through the exploration and analysis of space, time, and energy. There are performance opportunities for advanced students. Those interested should confer with Miss Lerner.

In addition, the Barnard Dance Theatre Workshop affords skilled dancers the opportunity to perform in workshop presentations, in concerts and in programs integrated with drama productions and those of other departments in the College. It sponsors symposiums, master classes conducted by guest artists, and other special events. Interested students should confer with Miss Genter.

**The Program in the Arts:** Students looking toward a career in dance performance or choreography should see the announcement on the Program in the Arts on pages 53-55, and should consult with Mrs. Roosevelt as soon as possible.

**60x or y. Dance Workshop.**

Advanced study in three dance technique classes each week, either at Barnard or in an approved studio in New York City. Students are expected to participate in master classes sponsored by Barnard and to perform at Barnard or elsewhere in the City. Admission with approval of the instructors. One course credit is given for two semesters of Dance Workshop. Miss Delanghe and Miss Genter. M T W Th 4-5:30.

**63. Form in Dance Composition.**

Study of the development of dance form through the manipulation, according to formal composition principles, of rhythm, energy and design in movement. Prerequisite: written permission of the instructor. Mrs. Soares. M 6-8, F 11-1.

**64. Content in Dance Composition.**

Research in the source materials of dance composition and exploration of their uses in choreography. Sources include gesture, movement texture, rhythmic structure, movement shape, and literary ideas. Emphasis upon unity of style in the work of each student. Prerequisite: Dance 3 or equivalent study elsewhere. Admission with approval of the instructor. Mrs. Soares. M 6-8, F 11-1.



- Related Courses** Students interested in dance will find the courses given below pertinent and should consult the departmental listings for course descriptions.
- English 33-34.** **Play Production.** Professor Janes and Mr. Pace
- English 38x.** **Critical Writing in Dance.** Mr. Sorell.
- Music 1-2.** **An Introduction to Music.**  
Professors Doris, and Lazarevich, and Mr. Roussakis.
- Music V1109x,**  
**V1110y.** **History of Dance.** Professor Roosevelt and Mr. Sorell.
- Philosophy 33.** **Concept of Beauty.** Professor Mothersill.
- Program in** **Introduction to the Arts.**  
**the Arts 1-2.** Professors Ulanov, Doris, Janes,  
Roosevelt and Mrs. Koslow and Mr. Sorell.



<i>Director of the Minor Latham Playhouse</i>	Kenneth Janes (231 Milbank Hall), Associate Professor of English
<i>Assistants to the Director</i>	Janet Soares, Donald Pace
<i>Technical Director</i>	Dennis Parichy
<i>Theater Manager</i>	Jane Hayes

The Minor Latham Playhouse is the center of activities for Barnard students interested in the theater. Majoring in various departments, the students bring to the Playhouse their special abilities and the experience of such courses as those listed below. For further information, consult Professor Janes. Students participate in the staged productions, the experimental and classic drama, dance and opera studio projects of The Barnard College Theatre Company. The Gilbert and Sullivan Society and the Spanish, French, German, Russian, and Italian clubs work in close cooperation with the theater program. The Barnard Bulletin's drama column and WKCR (the Columbia radio station) offer other opportunities to develop abilities related to the theater arts. Barnard's location in New York enables students to attend productions on and off Broadway.

**The Program in the Arts:** Those students contemplating a career in theater should see the announcement on the Program in the Arts, pages 53-55, and should consult with Professor Janes at the earliest possible time.

Among the courses concerned with the theater are these, described in detail in the departmental announcements.

### English

- [13], 14. **Dramatic Writing.** Professor Teichmann.
- 21. **The Uses of Speech.** Miss Caughran.
- 23, 24. **Oral Interpretation of Literature.** Miss Caughran.
- 27. **Public Speaking.** Miss Caughran.
- 28. **Persuasive Speaking.** Professor Norman.
- 30x. **Introduction to the Theater.** Mr. Pace.
- 31, 32. **Contemporary Theater.** Mr. Pace and Miss Castaños.
- 33, 34. **Play Production.** Professor Janes, Mr. Parichy and Staff.
- 35, 36. **The Actor's and Director's Interpretation of Dramatic Literature.** Professor Janes and Miss Castaños.
- 38x. **Critical Writing on Dance.** Mr. Sorell.
- 40y. VII. **The Contemporary British Stage.** Professor Patterson.
- 63, 64. **Shakespeare.** Professor Patterson.
- 69. **Renaissance Drama.** Professor Patterson.

86. **Drama from Ibsen to the Present.** Professor Ulanov.  
 98. I. **Shakespeare.** Professor Patterson.

**French**

16. **Advanced Oral French.** Professor Riffaterre.  
 20x. I. **The Theater of the Absurd.** Professor Geen.  
 34. **The French Theater of the Seventeenth Century.** Professor Bailey.  
 [35. **The French Theater of the Eighteenth and Nineteenth Centuries.**  
 Not given in 1972-73.]  
 [42. **Twentieth-Century French Theater.** Professor Geen. Not given in  
 1972-73.]

**German**

- [15. **Goethe and Schiller.** Professor Sakrawa. Not given in 1972-73.]  
 25y. **Great German Dramatists and Theaters of the 19th Century.**  
 Professor Sakrawa.  
 [26. **Modern German Theater.** Professor Bradley. Not given in 1972-73.]

**Greek and Latin**

- Classical **Greek Drama and Its Influences.**  
 Literature V3123y. Miss Sheffield.  
 Greek V3305x. **Tragedy.** Professor Bacon.  
 [Greek V3307x. **Greek Comedy.** Not given in 1972-73.]

**Italian**

- V3642y. **A Study of Contemporary Arts: The Italian Film.**  
 Professor Lorch.

**Music**

- V1005x. **The Opera.** Professor Lazarevich.  
 V1109x, V1110y. **History of Dance.** Professor Roosevelt and Mr. Sorell.

**Russian**

- [V1229x. **Russian Drama and Theater.** Not given in 1972-73.]

**Spanish**

- [22. **The Spanish Drama.** Professor Ucelay. Not given in 1972-73.]



<i>Professors</i>	Marion Hamilton Gillim <sup>2</sup> (Chairman; 411 Lehman Hall), Raymond J. Saulnier <sup>1</sup>
<i>Associate Professors</i>	Jean Gooch, Deborah D. Milenkovitch (Acting Chairman, Spring Term)
<i>Assistant Professor</i>	Cynthia B. Lloyd
<i>Instructor</i>	To be announced
	Officers of Columbia University offering courses listed below:
<i>Professors</i>	Donald J. Dewey, C. Lowell Harriss, Edmund S. Phelps, Aaron W. Warner
<i>Assistant Professors</i>	James Heckman, Donald Mathieson, Norman Mintz, Carl Riskin
<i>Instructors</i>	David Gold, Anwar Shaikh, Lawrence Tharp
<i>Preceptor</i>	Joel Koblentz

<sup>1</sup> Absent on leave, Autumn Term.

<sup>2</sup> Absent on leave, Spring Term.

As a major in economics, a student may arrange a program, with the help of her departmental adviser, to suit her individual needs and interests. For those planning graduate study in economics, special attention to economic analysis and statistics is recommended. Suitable programs can be arranged for students desiring to enter other professional schools or planning to go directly into careers in business, research, government or teaching. An appropriate sequence of courses can be planned, also, for the student whose interest is primarily in economics as a basis for informed citizenship.

A student majoring in economics will be required to take Courses 1 and 2; 27 or 28. Courses 7, 8 and both 17 and 18 are strongly recommended.

Other social sciences: In view of the essential unity of the social sciences, a major is required to take, in addition to a minimum of 8 courses in economics from the Department's listed offerings, one course in each of two of the following departments, selected in conference with her adviser: anthropology, geography, government, history, philosophy, psychology, religion, sociology.

Each senior major is required to prepare a research paper, which may be done in connection with one or two semesters of the senior seminar, 51, 52, or in 61, 62 over a full year. No major examination is required.

### 1. Introductory Economics.

A study of basic economic concepts with emphasis on the analysis of the aggregate economy. Subjects covered include national income and its determination, business and labor organizations, business cycles, government finance and monetary economics. Professors Gooch and Lloyd. Section I M W F 10. [2] Section II M W F 11. [3] Section III Tu Th 9:10-10:25. [6]

**2. Introductory Economics.**

Subjects covered include the determination of price and income distribution through supply and demand; monopoly and antitrust policy; international economics; problems of developing nations; and alternative economic systems. Economics 1 is not a prerequisite for Economics 2. Professors Gooch, Lloyd, and Milenkovich. Section I M W F 10. [2] Section II Tu Th 9:10-10:25. [6] Section III Tu Th 10:35-11:50. [7]

**[3. Introduction to Economic Analysis.**

Professor Milenkovich. Not given in 1972-73.]

**7. United States Economic History. [9]**

The causes of economic growth in the United States between the Colonial period and the Civil War. In illustrating the changing relations among the factors of production — land, labor, capital and entrepreneurship — emphasis will be placed on advances in technology, movements of capital and the contributions of all ethnic groups to the development process. Professor Gooch. Th 1:10-3:25.

**8. United States Economic History. [9]**

The development of the American economy from the Civil War to the present time. Changes in the structure of market demand, in costs and in technology will be examined for their effect on industrial, financial and social institutions. The adequacy of the enterprise system, together with government, to solve the economic and social problems of earlier decades in contrast to those of the nineteen-seventies will be examined critically. Professor Gooch. Th 1:10-3:25.

**10. The Role of Women in Modern Economic Life. [13]**

Topics to be discussed include the extent of women's education; labor force participation by women; economic factors affecting marriage, divorce and fertility; economic discrimination against women; effect of government policy on women's position; and international and historical comparisons. Prerequisite: Course 2 or permission of the instructor. Professor Lloyd. Tu Th 4:10-5:25.

**12x. The Economics of Worker-Management. [13]**

Theory and practice of worker-managed economies. Short- and long-run microeconomic theory of producers' cooperatives; macroeconomic implications. Performance of worker-managed economies (Yugoslavia); producers' cooperatives (Israel, Algeria); effects of codetermination and labor consultation (Western European). Prerequisite: Courses 1, 2 or equivalent. Professor Milenkovich. Tu Th 4:10-5:25.

**[16. Government Finance and Fiscal Policy.**

Professor Gillim. Not given in 1972-73.]

**17, 18. Introductory Statistics. [1]**

Autumn Term: The gathering, processing, presentation and analysis of statistical data; linear correlation; and an introduction to statistical inference. Spring Term: Index numbers; time series; multiple correlation; and other techniques used in the social sciences; prerequisite: Course 17. Autumn Term: Professor Gillim. Spring Term: Instructor to be announced. Lec. M W 9. Lab (2 hours) M 2:10-4 or Tu 2:10-4 or 4:10-6.

- 19. Labor Economics.** [4]  
Factors affecting the allocation and remuneration of labor. Topics include population structure; unionization and monopoly; education and manpower training; mobility and information; sex and race discrimination; unemployment; and public policy. Prerequisite: Economics 2 or equivalent. Professor Lloyd. M W F 1:10.
- 22. The Economics of Population.** [3]  
Economic determinants and consequences of population structure and change in developed and underdeveloped countries. Topics include population theories; sources and uses of demographic statistics; fertility, mortality and migration; population distribution; family planning; population policy. Prerequisite: Economics 1, 2 or equivalent. Professor Lloyd. M W 11-12:15.
- [24. The Latin American Economy.**  
Professor Gillim. Not given in 1972-73.]
- 26. Contemporary Economic Issues.** [5]  
A survey of the leading economic issues in present-day American life, including international as well as domestic questions. Lectures and discussion. Open to all except freshmen. Professor Saulnier. M W 2:10-3:25.
- 27. Intermediate Macroeconomics.** [7]  
Keynesian and neo-Keynesian analyses of the aggregate economy. Prerequisite: Courses 1, 2. Professor Gooch. Tu Th 10:35-11:50.
- 28. Intermediate Microeconomics.** [7]  
Theory of consumer demand, the pricing of goods and services in perfect and imperfect competition, the pricing of the factors of production, and a brief history of these ideas. Prerequisite: Courses 1, 2. Professor Gooch. Tu Th 10:35-11:50.
- 29. The Economics of Underdeveloped Areas.** [5]  
The economics of underdevelopment: theories of economic growth, capital accumulation, human resources and technological changes. Domestic and foreign policy issues: development plan; monetary policy; the role of industry; the structure of foreign trade; international capital flows. Prerequisite: Courses 1, 2 or permission of the instructor. Professor Milenkovitch. M W 2:10-3:25.
- 30. Comparative Economic Systems.** [5]  
An analysis of the principles of planned and market economies. Systems are compared from a theoretical point of view and through the study of typical economies: the United States, the Soviet Union, China, Yugoslavia and France. Prerequisite: Courses 1, 2 or permission of the instructor. Professor Milenkovitch. M W 2:10-3:25.
- 33. Economic Planning.** [9]  
Planning techniques such as input-output analysis and linear programming and their applications to economic policy. Planning of national economies in Western Europe, Soviet bloc and underdeveloped countries. Regional planning, including metropolitan regions. Prerequisite: One of the following courses: Economics 16, 27, 28, 29 or 30. Professor Milenkovitch. Tu 2:10-4.
- [36. Colloquium on Political Economy.**  
Professor Milenkovitch. Not given in 1972-73.]



- 51, 52. Economics Seminar.** [0]  
Reading, reports, and discussion centering around the preparation of an essay required of senior majors. Autumn Term: Professor Gillim. Spring Term: Professor Saulnier. W 3:30-5:30.
- 61, 62. Studies in Economics.** [0]  
Additional credits may be obtained in this course for independent work done in connection with some other course in economics. Special reports, a term paper, or the completion of supervised field work is required. The essay required of senior majors may be written in 61, 62 rather than in 51, 52. The course may be repeated. Members of the Department.
- W1413y. Introduction to Mathematics for Economists.**  
The development of fundamental mathematical concepts and techniques applicable to economics and business. An introduction to differential calculus and elementary linear algebra, with an emphasis on their use in micro- and macro-economic theory. Prerequisite: Economics 1 and 2 and permission of the instructor. Mr. Shaikh. M W 4:10-5:25.
- W3223x. Aspects of American Capitalism: A Critique of Theoretical Explanations.**  
A critical analysis of American capitalism, with emphasis on the behavior of government and the role of social classes. Topics include: theories of the state; public decision-making; distribution of income and wealth; education; formation and identification of social classes; the corporation; trade development; and the theory of imperialism. Prerequisite: Economics 1 and 2. Messrs. Gold (in charge), Shaikh, and Tharp. Tu Th 4:10-5:25.
- W3228x. The Urban Economy.**  
Past and present economic functions of cities. Growth of metropolitan areas. Location theory; theories of site rent and urban form; analysis of the urban economic base. Impact of changing technology and social structure on central cities and suburbs. Problems of older central cities, including transportation, public finance, housing, and urban renewal. Effects of federal policy. The future of the city. Prerequisite: Economics 3 or the equivalent. Mr. Koblenz. Tu Th 2:40-3:55.
- W3241y. Economic Justice: Rival Conceptions and Their Policy Requirements.**  
A survey of the major conceptions of distributive justice, or social welfare, from utilitarianism and present-day neo-utilitarianism to Rawls' *A Theory of Justice*; an examination of the implications for income taxation, government expenditure, and other public policies for realizing justice. Prerequisite: Economics 1 and 2. Professor Phelps. Tu 2:10-4.
- W3253y. Government Economic Policy: Theory and Practice.**  
Principles of government economic policy; the historical and theoretical antecedents of contemporary policy; the integration of political and economic theory; effects of government on resource allocation and distribution; welfare and cost-benefit criteria; a critique of American experience. Prerequisite: Economics 1 and 2. Mr. Gold. Tu Th 1:10-2:25.

**W3321y. Economic Development.**

The economics of underdevelopment: theories of economic growth; capital accumulation, labor flows, and technological change; roles of agricultural sector, government, and foreign trade and aid. Prerequisite: Economics 1 and 2. Professor Riskin. M W 7:40-8:55.

**W3412y. Econometrics.**

Modern econometric methods: the general linear statistical model and its extensions; simultaneous equations methods and the identification problem; time series problems; forecasting methods. Prerequisite: Economics 1 and 2 and a semester of statistics. A background in introductory calculus and/or linear algebra is recommended. Professor Heckman. M W 2:40-3:55.

**W3414x. Introduction to Mathematical Economics.**

The application of mathematical techniques to economic analysis. The theory of the firm and competition; theory of demand; static macro-economic models. Mathematical tools are developed as needed. Prerequisite: Economics 1 and 2 and the instructor's permission. Some knowledge of calculus is recommended. Mr. Shaikh. M W 4:10-5:25.

**W3711x. Monetary Economics.**

The nature of money and its role in the United States economic system. The functions and policies of the Federal Reserve System. Issues of monetary management. The development of monetary theory. The relation of money to prices, interest rates, and income. Prerequisite: Economics 1 and 2. Professor Mathieson. M W 7:40-8:55.

**W3861x. Taxation and Government Expenditures.**

Theory and practice of government spending: principles of taxation, including distribution of burden and constitutional aspects; individual and corporation income, property, commodity and general sales, death and payroll taxation; shifting and incidence; administration. Prerequisite: Economics 1 and 2. Not open to students who have taken Economics 16. Professor Harriss. Tu Th 1:10-2:25.

**W3862y. Government Budgeting, Public Debt, Intergovernmental Financial Relations, and Fiscal Policy.**

Budgeting and problems of efficiency in government spending; intergovernmental financial relations; selected aspects of international comparative fiscal systems; borrowing and debt management; fiscal policy for economic stabilization and growth. Prerequisite: Economics 1 and 2. Not open to students who have taken Economics 16. Professor Harriss. Tu Th 1:10-2:25.

**W3904x. International Economics.**

The theory of international trade: comparative advantage and the factor-endowments explanations of trade; analysis of the theory and practice of commercial policy; economic integration. The balance of payments; adjustment in response to disequilibria; the foreign exchange market; alternative monetary systems. Proposals for reform of the international monetary system. Prerequisite: Economics 1 and 2. Professor Mintz. Tu Th 2:40-3:55.

**W4714y. Financial Institutions.**

A study of the functioning of the principal public and private agencies comprising the financial system of the United States; their relation to the flow of money payments and the process of capital

formation. Open to seniors. Prerequisite: Courses 1 and 2 and at least two other courses in economics. Professor Saulnier. Tu 2:10-4.

**W4453x. Industrial Relations.**

Contemporary developments and trends in industrial relations in industrialized countries; role of trade unionism; theory and practice of collective bargaining; impact of technology and structural economic change. Regulation of industrial conflicts; problems of joint consultation and joint management arrangements; industrial relations in regulated and public enterprises. Relevance of industrial relations to national economic planning. Consent of Barnard department and major adviser required. Professor Warner. F 4:10-6.

**W4251x. Industrial Organization and Control.**

The structure and performance of the American economy, with particular attention to the technical forces, historical accidents, and public policies which have shaped them. The problem of measuring concentration and productivity performance. Antitrust regulation in the light of modern economic analysis and empirical work. Prerequisite or corequisite: Economics 28. Professor Dewey. M W 1:10.

**W4524y. Economic Organization in the Soviet Union and Eastern Europe.**

Organization and performance of Soviet-type economies. Pressures for changes. Comparisons of reforms in Yugoslavia, Eastern Europe and the Soviet Union. Prerequisite: Economics 1 and 2, or permission of the instructor. Professor Milenkovitch. Tu Th 2:10-3.

**[G4328x. Yugoslav Economic Planning. Not given in 1972-73.]**





The following interdepartmental program is supervised by the Committee on Education:

<i>President, ex officio</i>	Martha Peterson
<i>Professor of Education</i>	Patricia Albjerg Graham <sup>2</sup> (Chairman; 336B Milbank Hall)
<i>Frederick A. P. Barnard Professor of Education, Teachers College, Columbia University</i>	Lawrence A. Cremin
<i>Professor of English</i>	Barry Ulanov
<i>Professor of History</i>	Annette K. Baxter <sup>1</sup>
<i>Professor of Mathematics</i>	Patrick X. Gallagher <sup>1</sup>
<i>Professor of Philosophy</i>	Joseph G. Brennan
<i>Professor of Political Science</i>	Demetrios Caraley
<i>Associate Professor of French</i>	Renée Geen
<i>Assistant Professor of Education and Psychology</i>	Susan Riemer Sacks (Acting Chairman; 336A Milbank Hall)
<i>Assistant Professor of Psychology</i>	Edward S. Cobb
<i>Associates in Education</i>	Frank Moretti, Katherine Wilcox

<sup>1</sup> Absent on leave, Spring Term.

<sup>2</sup> Absent on leave, 1972-73.

The Education Program does not constitute a major; it is taken in conjunction with a major in some other subject.

The program is open to qualified Barnard students who wish to teach in elementary or secondary schools. With the psychology requirement (Psychology 5, 27, or 34), either History 65, or Philosophy 84, and a course in methods of teaching a specific subject, a student who completes Education 3-4 at the secondary level receives a New York State Provisional license, which is valid for five years. Students in the elementary program must take three courses to be chosen among Psychology 5, 27, and 34, History 65, and Philosophy 84. All are required to take Education 2, 3 and 4 in order to qualify for the New York State

Provisional license. A permanent license requires a master's degree, which need not include any additional work in education.

Students enroll in Education 3, 4 only for the term in which they student teach. Education 3 and 4 are taken concurrently and count as two courses. They are directly concerned with the principles and practice of classroom teaching.

Before the end of the sophomore year, students interested in teaching should confer with the director of the Education Program. Juniors who wish to apply for admission to the program should file application forms, which may be obtained in the office of the Education Program during the Autumn Term. Decisions for admission to the Program are normally announced on the first day of the Spring Term of the junior year.

**Education 2. Problems in Teaching Reading and Arithmetic. [0]**

Children's problems in learning to read and to do arithmetic are examined through direct contact with children and through study of the available literature. Students will tutor children with these difficulties and will assess their work in a weekly seminar. This course is a prerequisite to student teaching in the elementary grades. Limited to students admitted to the Education Program. Seminar. Professor Sacks. Tu 2:10-4.

**Education 3, 3y, 4x, 4. Introduction to Teaching in the Elementary and Secondary Schools. [0]**

This course involves observation and student teaching in elementary and secondary schools. The accompanying seminar examines contemporary issues in American education. Individual conferences assess pedagogical problems encountered in student teaching. Student teaching is done during one term four or five half-days a week, generally in the morning. The term in which student teaching is done the course will be designated Education 3, 4 and will be considered equivalent to two courses. Prerequisite: admission to Education Program. Seminar. Professor Sacks and staff. Autumn Term: W 2:10-4; Spring Term: M 2:10-4.

**History 65. History of Education in the United States. [5]**

The development of American education in the context of social and intellectual history. Mrs. Thalenberg. M 2:10-4.

**Philosophy 84. Philosophy of Education. [4]**

Classical readings include Plato's *Republic* and Rousseau's *Emile*. The idea of individualism, in both its European and American forms, is traced from Rousseau to Dewey, leading to discussion of problems in present day American educational ideology. Selected readings are assigned concerning ideas of "middle class" and black education. Discussion of theories of higher education is supported by readings from Newman's *The Idea of a University* as well as some related to recent events in American universities. Professor Brennan. M W F 1:10.

**English 98. VI. The Teaching of English.****[0]**

Primarily for students in the Education Program. Professor Prescott. W 3:10-5.

**History 63y. Problems in the Teaching of History.****[17]**

The selection and organization of content for junior and senior high school history courses; use of primary sources, secondary readings, and other relevant materials; problems of evaluation. Primarily for students in the Education Program; others by written permission of the instructor. Sister Mary Elizabeth. M 4:10-6.





<i>Professors</i>	John A. Kouwenhoven, <sup>1</sup> David A. Robertson, Jr., Eleanor Rosenberg, <sup>2</sup> Eleanor M. Tilton, <sup>1</sup> Barry Ulanov
<i>Adjunct Professor</i>	Howard M. Teichmann <sup>1</sup>
<i>Associate Professors</i>	Kenneth H. Janes (Director of Minor Latham Playhouse), Ruth M. Kivette (Departmental Representative; 408A Barnard Hall), Joann Ryan Morse, Richard A. Norman (Chairman; 412 Barnard Hall), Remington P. Patterson
<i>Adjunct Associate Professors</i>	Joy Chute, Elizabeth Hardwick, Ellen Moers <sup>3</sup>
<i>Assistant Professors</i>	Lois A. Ebin, Anthony G. Henderson, Maire J. Kurrik (Director of English A; 422 Barnard Hall), Anne Lake Prescott, Catherine R. Stimpson, <sup>1</sup> Janice Farrar Thaddeus
<i>Associates</i>	Elizabeth Caughran, Elizabeth Dalton, Marjorie Housepian Dobkin, Quandra Stadler
<i>Lecturer</i>	Walter Sorell
<i>Instructors</i>	Ruth M. Mathewson, Donald Pace, Christine Royer
<i>Assistants</i>	Margaret D. Hance, Janet Soares

<sup>1</sup> Absent on leave, Autumn Term.

<sup>2</sup> Absent on leave, Spring Term.

<sup>3</sup> Absent on leave, 1972-73.

A student majoring in English will study the works of the principal poets, novelists, essayists, and playwrights of England and America in their contemporary contexts. She will acquire a knowledge of the history of literature, develop her ability to understand and evaluate texts, and improve her own writing and speaking.

In consultation with her departmental adviser, a major in English will plan her program to include course 93 in her sophomore or junior year, course 59-60 in her junior year, and courses 97, 98 in her senior year. In addition she will elect five courses (normally from courses 53-90) so distributed as to acquaint her with a variety of texts of different genres and different periods. A student may choose in place of no more than two of these five courses, courses in writing, speech, or theater. Majors with a special interest in writing, speech, or theater should study the departmental offerings under those headings.

**Program in the Arts:** Those students interested in this Program should see the announcement on pages 53-55, and should consult with Professor Ulanov or Professor Janes as soon as possible.

## Introductory

**A. Freshman Studies in English. [0]**

An approach to literary skills through intensive reading, regular assignments in composition, and discussion; frequent individual conferences with the instructor. Prescribed for all freshmen. Other English courses open to freshmen in the Autumn Term are Courses 21 and 27, either of which may be taken parallel to A. With the written permission of the instructor, a freshman may elect a literature course in the Spring Term. Professor Kurrik and Members of the Department. Sections of Course A meet at the following hours: M W F 9, 10, 11, 12:10, 1:10, 2:10. Tu Th 9:10-10:25, 10:35-11:50, 2:10-3:25.

Room assignments will be posted outside 401 Barnard Hall.

**2 [or 2x]. Special Seminar in Reading and Writing. [0]**

For students who want additional work in reading and writing at the first-year level. Special reading topics. Permission of the Departmental Representative (408A Barnard Hall) required. Professor Ebin and Mrs. Mathewson. Hours to be arranged.

**40x, 40y. Seminars on Special Themes. [0]**

Open to a limited number of freshmen and sophomores who have satisfied the basic requirement in English A, and to juniors and seniors if numbers permit. Permission of the instructor required. Course 40 is not normally accepted as part of the major requirement.

**40x. (Autumn Term)****I. Psychoanalytic Approaches to Literature.**

Study of literary expression in the light of psychoanalytic thought; reading in Freud and other psychoanalytic writers, Shakespeare, James, Kafka, Lawrence and others. Miss Dalton. Tu Th 2:10-3:25.

**II. Arthurian Legend.**

The Matter of Britain in the Middle Ages and after. Readings include *The Mabinogion*, Chrétien, Malory, Tennyson, Mark Twain, and Eliot. Professor Prescott. M W F 11.

**III. The City in Literature.**

The effect of the growth of cities on the literary imagination. Readings in Stephen Crane, Theodore Dreiser, New York poets, and others. Professor Kivette. Tu Th 10:35-11:50.

**40y. (Spring Term)****IV. Yeats and Joyce.**

The achievement of modern Irish literature as represented by William Butler Yeats and James Joyce. Professor Henderson. M W F 11.

**V. Images of Woman in Literature.**

Sexual roles and the place of woman as represented in the Bible and in works by Shakespeare, Jane Austen, D. H. Lawrence, Doris Lessing, and others. Professor Stimpson. M W F 1:10.

**VI. Explorations of Black Literature.**

A study of black expression in America: slave narratives, folklore, and song; works by Chesnutt, Du Bois, and others. Mrs. Stadler. Tu Th 10:35-11:50.

**VII. The Contemporary British Stage.**

British plays of the 1950s and 60s by Osborne, Arden, Wesker, Pinter, Bond, and Stoppard, among others. Professor Patterson. Tu Th 2:10-3:25.

**Writing** Registration in each course is limited, and the written permission of the instructor is required; signed departmental registration blanks are to be filed with Professor Kivette (408A Barnard Hall). Two writing courses may not be taken concurrently. Majors with a special interest in writing who have had two writing courses may substitute a third writing course for either course 97 or course 98 in their senior year.

**3, 4. Structure and Style.** [0]

English composition above the first-year level. Frequent individual conferences. Students may take either term or both.

I. Fiction and personal narrative. Miss Dalton. M 2:10-4.

II. Spring Term: Professor Kouwenhoven. Tu Th 9-9:50.

III. Autumn Term: exposition, fiction, poetry. Weekly conferences. Spring Term: poetry. Professor Thaddeus. Tu 2:10-4.

**6. Advanced Composition.** [0]

The members of the class will keep daily journals and work up the material in finished papers, fiction and nonfiction. Mrs. Dobkin. Th 3:35-5:25.

**7, 8. Experiments in Writing.** [0]

Advanced work in various forms. Individual conferences with the instructor. Professor Hardwick. Th 2:10-4.

**11, 12. Story Writing.** [0]

Advanced work in writing, with emphasis on the short story. Individual conferences with the instructor. Some experience in the writing of fiction is prerequisite to this course. Professor Chute. Tu 4:30-5:25.

**[13], 14. Dramatic Writing.** [0]

The development of a dramatic situation in terms of short fiction, the theater, television, motion pictures, and radio. Completed works are discussed, given dramatic readings by the class, and recorded on tape. Professor Teichmann. Tu Th 2:10-3:25.

**Speech** To elect any course in speech a student must secure the written permission of Professor Norman or Miss Caughran. Majors with a special interest in speech who have had two speech courses may substitute a third speech course for either course 97 or course 98 in their senior year. Their work should include course 21 and courses in public speaking and oral interpretation.

**21 [or 21y]. The Uses of Speech.** [0]

Training in voice production and clear articulation. Designed to improve the student's speech through drill, practice in reading aloud, the presentation of oral reports, and extemporaneous speaking. Use of the language laboratory. Registration limited to 15 students. Professor Norman and Miss Caughran. M W F 11.



- [22. **American and British Dialects.**  
Miss Caughran. Not given in 1972-73.]
- 23, 24. **Oral Interpretation of Literature.** [0]  
Study of literary texts for oral performance. Fictive prose and poetry, with class projects exploring reading modes from informal presentation to reader's theater. Miss Caughran. M W F 10.
27. **Public Speaking.** [0]  
Study of the basic principles of informal and formal speaking with emphasis on the selection and organization of materials, on audience psychology, and on effectiveness of delivery. Professor Norman. Tu Th 10:35-11:50.
28. **Persuasive Speaking.** [0]  
Theory and practice of persuasive speaking: the use of evidence and opinion, logic, and audience motivation in the presentation of controversial views and current issues. Professor Norman. Tu Th 10:35-11:50.
- Theater** To elect any course in theater (except course 30x) a student must secure the written permission of the instructor. Majors with a special interest in theater should consult with a faculty member of the theater staff concerning courses in theater. Majors who have had at least one course in speech and two in theater may substitute a course in theater for either course 97 or course 98.
- 30x. **Introduction to the Theater.** [0]  
A survey of historic and modern theater with emphasis upon the origins of theater, the nature of the dramatic act, and the place of theater in society. Special attention is paid to the interrelation of dramatic literature, styles of production, and the organization of theater. Individual and group projects in related research. Class attendance at professional theater productions. Mr. Pace. Tu Th 2:10-3:25.
- 31, 32. **The Contemporary Theater.** [0]  
A study of the major developments in the contemporary theater, especially the nature and treatment of the text, the actor's art, and the function of the director. The course will include acting and directing projects by class members. Permission of the instructor required. Mr. Pace and Miss Castaños. M 3:10-5. Lab. hours to be arranged.
- 33, 34. **Play Production.** [0]  
A study of the technical aspects of the theater and the ways in which they complement the work of the playwright, director, choreographer, and actor. Guest lecturers in specialized areas from the professional theater. Permission of the instructor required. Professor Janes, Mr. Parichy and Theater Staff. Tu Th 3:35-5:25.
- 35, 36. **Actor's and Director's Interpretation of Dramatic Literature.** [0]  
The practical study of Renaissance and Restoration dramatic literature for actors and directors. Permission of instructor required. Professor Janes and Miss Castaños. F 3:10-5. Lab. hours to be arranged.

**38x. Critical Writing on the Dance. [0]**

A close examination of 19th and 20th century dance criticism, with practice in writing descriptively about movement and in composing critical analyses of dance performances. Prerequisites: Music V1109x, V1110y (History of Dance), and permission of the instructor. Mr. Sorell. M 2:10-4.

**Language and Literature** For nonmajors, courses marked § will count toward the general college requirement.

**§51, 52. An Introduction to Literary History. [4]**

A general view of the scope and variety of English literature and its place in world literature through study of selected writers and their works. Autumn Term: Chaucer through Milton. Spring Term: Dryden to the beginning of the twentieth century. Professors Norman and Prescott. M W F 1:10.

**[53. Anglo-Saxon Language and Literature. Not given in 1972-73.]****§55. Chaucer. [7]**

Chaucer's *Canterbury Tales*. Professor Prescott. Tu Th 10:35-11:50.

**[§56. Chaucer and his Contemporaries. Not given in 1972-73.]****[58. Medieval Literature. [7]**

Professor Ulanov. Not given in 1972-73.]

**59-60. The English Colloquium.**

The major writers, major works, and major genres of the literature from the late fifteenth century to the late eighteenth century, examined in terms of the leading ideas of the period. Required of junior majors; election by non-majors if numbers permit. Meetings of all four sections will be arranged from time to time for lectures on special topics related to the course.

**I. Reason and Passion. [4]**

Reason, folly, and wisdom; indulgence, abstinence, and temperance; reason, imagination, and revelation; rationality and irrationality. Professors Kivette and Thaddeus. W 1:10-3

**II. Imitation and Creation. [10]**

New ideas of the mind's relation to the worlds it perceives and the consequences for art. New perspectives, the emergence of new forms, experimentation with old forms, and the search for an appropriate style. The change from public performance to private reading. Professors Ebin and Morse. W 3:10-5.

**III. Ideas of Order and Disorder. [13]**

Form and structure achieved or defeated in the work of art and in the world. The rise of the man of letters and vernacular literature. The drama of self-definition. The development of modern notions of subjectivity, self-confidence, and revolutionary change. Professors Ulanov and Kurrik. Th 3:35-5:25.

**59y. IV. The Traditions of Love [5]**

An exploration of the literary modes in which ideas about love found expression: God's love of man and man's love of God; courtly love, Petrarchan love, neoplatonic love, and romantic love; love of mankind expressed as concern for society. This section is open to sophomores who have had course 93 or who plan to take course 93y. Professors Prescott and Henderson. M 2:10-4.

- §63, 64. Shakespeare.** [3]  
A critical and historical introduction to Shakespeare. About fifteen plays—comedies, histories, and tragedies—will be read, with emphasis on the major plays. Professor Patterson. M W F 11.
- §65. Spenser and the Tudor Renaissance.** [4]  
Humanism, the Reformation, the New World; courtly poetry and popular prose from Skelton and More through Sidney and Nashe, with special attention to Edmund Spenser. Professor Rosenberg. M W F 1:10.
- [§66. Seventeenth-Century Literature.**  
Professor Rosenberg. Not given in 1972-73.]
- §67y. Milton.** [2]  
A close reading and critical analysis of Milton's poetry with particular attention to *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*. Professor Kivette. M W F 10.
- §69. Renaissance Drama.** [5]  
Major plays of the English Renaissance from the Tudor interlude to the closing of the theaters, with emphasis on Marlowe, Jonson, and Webster. Professor Patterson. M W F 2:10.
- §71. The Novel.** [12]  
The central English tradition, including works by Defoe, Richardson, Fielding, Austen, Bronte, George Eliot, Meredith, Hardy, and Dickens. Professor Kurrik. M W F 12:10.
- §73. Literature of the Restoration and Early Eighteenth Century.** [2]  
Developments in satire, drama, the essay, and the beginnings of the novel. Authors include Etherege, Congreve, Pope, Swift, Defoe, and Fielding. Professor Henderson. M W F 10.
- [§74. Later Eighteenth-Century Literature.**  
Professor Henderson. Not given in 1972-73.]
- §76. Prose and Poetry of the English Romantics.** [6]  
The thought and style of Blake, Wordsworth, Coleridge, Hazlitt, Lamb, De Quincey, Byron, Keats, and Shelley. Professor Tilton. Tu Th 9:10-10:25.
- §77. The Victorian Age in Literature.** [7]  
Prose and verse concerning problems of society and of religion: Carlyle, Disraeli, Macaulay, Mill, Newman, Huxley, Tennyson, Browning, Arnold. Professor Robertson. Tu Th 10:35-11:50.
- §78. Victorian Poetry and Criticism.** [7]  
Poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne. Essays by Ruskin, Arnold, Meredith, Pater, and Wilde. Professor Robertson. Tu Th 10:35-11:50.
- [§79. American Literature, 1828-1865.**  
Professor Tilton. Not given in 1972-73.]
- §80. American Literature, 1865-1950.** [9]  
The experimenters in prose and poetry from James to the present. Miss Royer. Tu Th 2:10-3:25.



- §82. **Seminar in American Literature.** [0]  
Melville, Whitman, and a twentieth-century writer to be chosen by the student in consultation with the instructor. Professor Tilton. W 9-10:50.
- [83. **Modern Literature and the Allied Arts.**  
Professor Ulanov. Not given in 1972-73.]
84. **(Art History 84). The Vernacular in the American Arts of Design.** [10]  
The conflict between the "cultivated" and "vernacular" styles. The development of an American aesthetic in technology, architecture, fine arts, literature, and other arts. Professor Kouwenhoven. W 3:10-5:25.
- §85. **Modern British and American Poetry.** [9]  
The thought and style of Hopkins, Yeats, Frost, Robinson, Pound, Eliot, Stevens, and more recent writers; the literary movements with which they are associated. Professor Ulanov. Tu Th 2:10-3:25.
86. **Drama from Ibsen to the Present.** [9]  
Reading of English, Continental, and American plays, of which the most important will be analyzed in class. Professor Ulanov. Tu Th 2:10-3:25.
- [87. **Major American Writers and Their Foreign Sources.**  
Professor Tilton. Not given in 1972-73.]
- §88. **The Modern Novel.** [5]  
Works by James, Conrad, Lawrence, Joyce, and Forster. Professor Morse. M W F 2:10.
- §89y. **Literature and Dissent.** [3]  
A study of English and American writers since 1945 concentrating on works by writers who challenge political conventions and literary traditions. Reading to include Beckett, Burroughs, Doris Lessing, Mailer, O'Connor, and some reference to popular culture. Professor Stimpson. M W F 11.
90. **The English Language: History and Use.** [2]  
An introduction to the history of words, pronunciation, and structure in the light of literary tradition and linguistic science. Professor Norman. M W F 10.
- 93 (or 93y). **Literary Criticism: Analysis and Evaluation.** [0]  
The purpose of the course is to provide experience in the reading of literary texts and some knowledge of conspicuous works of literary criticism. Frequent short papers. Registration in each section is limited. Students must file departmental registration forms with Professor Rosenberg (401A Barnard Hall) before completing their programs.
- All English majors are required to take Course 93 (or 93y) before the end of the junior year. Sophomores are encouraged to take it in the Spring Term before they officially declare their major. Transfer students should plan to take 93 in the Autumn Term.
- Professors Robertson, Rosenberg, Tilton, Morse, Prescott, Kurrik, and Miss Caughran. Section I Tu 3:35-5:25. Section II W 3:10-5. Section III Th 3:35-5:25.

**96. Independent Work. [0]**

Students who wish to prepare a senior essay on an individual basis instead of taking Course 98 should consult Professor Tilton (419 Barnard Hall) before registering. Professors Tilton and Robertson. Hours to be arranged.

**97, 98. Studies in Literature. [0]**

Open to majors and nonmajors. These seminars provide opportunities for intensive study of subject matter to which students have already been introduced in other courses. Registration in each section is limited, and the written permission of the instructor is required. Departmental registration forms must be filed with Professor Tilton (419 Barnard Hall).

All English majors who elect advanced work in literature, rather than in writing, speech, or theater, are required in the senior year to take one section of 97 and one of 98. Other students will be admitted to the seminars if the section lists have not been filled.

**97. (Autumn Term)****I. The Middle Ages.**

Quest and vision: a study of the artistic uses of the romance and the dream vision as vehicles for exploring man's inner and outer worlds with particular attention to works by Chaucer, the *Gawain* Poet, William Langland, Gower, and Dunbar. Professor Ebin. Tu 3:35-5:25.

**II. The Renaissance.**

A study of the theory that "art imitates nature" with special reference to works by Sidney, Spenser, Shakespeare, Donne, Herbert, and Milton. Professor Rosenberg. Th 3:35-5:25.

**III. The Eighteenth Century.**

Progress and the satiric response in works by Swift, Fielding, Johnson, Smart, and Blake. Professor Thaddeus. Th 2:10-4.

**IV. Romanticism.**

The study of a major work by each of four poets: Blake, Wordsworth, Byron, and Shelley. Professor Henderson. W 3:10-5.

**V. American Literature (1880-1950).**

The rite of initiation in works by Mark Twain, James, Crane, Fitzgerald, Ellison, McCullers, Bellow, and a number of poets. Miss Royer. W 3:10-5.

**98. (Spring Term)****I. Shakespeare.**

Studies in selected plays of Shakespeare and his contemporaries, with emphasis on the insights and development of Shakespearean criticism. Professor Patterson. W 3:10-5.

**II. Studies in Tragedy.**

The reading of tragedies in conjunction with important theories of tragedy: Greek, Elizabethan, French classical tragedy, and some modern works; Aristotle, Nietzsche, Frazer, Freud, and Artaud. Miss Dalton. Tu 3:35-5:25.

**III. Studies in the Novel: Subjectivity and Authority.**

An examination of the novel with emphasis on problems of subjectivity, fictional authority, and genre theory; its reputation among writers and critics in the past and its position in the critical pluralism of the present. Professor Kurrik. Tu 3:35-5:25.

**IV. The Romantic Survival.**

Modern writers' use of romantic symbolism and theories of art; the problem of the long work and the problem of belief. Professor Morse. Th 3:35-5:25.

**V. Film and Word.**

The influence of literature on films, films on literature; the use of the script; some study of the grammar of the film. Professor Stimpson. Th 3:35-5:25.

**VI. The Teaching of English.**

The place of English in the curriculum and the role of the English teacher; grammar, composition, literature, testing, and grading. Primarily for students in the Education Program. Professor Prescott. W 3:10-5.





<i>Professors</i>	Helen Phelps Bailey, LeRoy C. Breunig, Maurice Z. Shroder
<i>Associate Professors</i>	Serge Gavronsky, Renée Geen (Chairman; 305 Milbank Hall), Tatiana Greene
<i>Assistant Professors</i>	Danielle Haase-Dubosc, Hermine Riffaterre, Domna Stanton <sup>1</sup>
<i>Lecturer</i>	Patricia Terry
<i>Instructors</i>	Hervé Denis, Jane Grace, Sylvie Sayre, Lynda Snead

<sup>1</sup> Absent on leave, Autumn Term.

Courses in the French department have a twofold objective: to perfect fluency in the written and the spoken language; and to develop an understanding and appreciation of the literature and culture of France.

New students who have already given evidence of advanced training in French may automatically be exempted from the language requirement. All other new students who intend to satisfy their requirement in French will, depending upon their preparation, be placed immediately in the appropriate language course or be asked to take a placement test, offered at the start of each semester. Those receiving a sufficiently high grade will fulfill the requirement. The others may do so by completing French 4.

Students who have satisfied the language requirement can take literature courses conducted entirely in French (Course 20x, 20, 21-22, 23-24, 25-26); courses in which the readings are in French, but with lectures, discussions, and papers in English (47, 48); and advanced language Course 6.

The student majoring in French will plan her program to include the following: either Courses 21 and 22, 23-24, or 25-26; two of the language courses 12, 13, 14, 16; four one-term literature courses numbered 31-44; two one-term seminars numbered 51-54. Students with honor grades may elect Course 59-60, senior thesis.

The program may include additional courses in French literature or in other subjects which vary with the interest of the student. Majors who plan to do graduate work are encouraged to acquire a reading knowledge of Latin or German.

There are two departmental examinations: the Junior French Test (a short-answer examination on literary history, literary terminology, and translation) and the Major Examination (a critical essay on a prepared question and an individual oral *explication de texte*).

**Language Courses** All courses are conducted in French.

**1-2. Elementary Full-Year Course. [14']**

Grammar, reading, composition. Work in the language laboratory is required. Mrs. Sayre (course chairman) and Mrs. Grace. Section I M Tu W Th F 9. Section II M Tu W Th F 10.

**2x. Review of Elementary French. [14']**

Oral and written review of basic grammar and syntax. Reading in modern literature, oral practice, free composition, translation. Work in the language laboratory is part of the course. Primarily for students who need further instruction to qualify for the intermediate course. Professor Greene (course chairman) and Members of the Department. Section I M W F 10. Section II M W F 11. Section III M W F 12:10. Section IV Tu Th 10:35-11:50.

**3. Intermediate Course. [14]**

Grammar and syntax. Reading in modern literature, oral practice, free composition, translation. Work in the language laboratory is part of the course. Prerequisite: Course 1-2, Course 2x, or an appropriate score on the placement test. Professor Riffaterre (course chairman) and Members of the Department. Section I M W F 10. Section II M W F 11. Section III M W F 12:10. Section IV M W F 1:10. Section V Tu Th 10:35-11:50. Section VI Tu Th 2:10-3:25.

**3y. Intermediate Course. [14]**

The equivalent of Course 3 but given in the Spring Term. Professor Stanton (course chairman) and Members of the Department. Section I M W F 10. Section II M W F 11. Section III M W F 12:10. Section IV Tu Th 10:35-11:50.

**4. French through Literary Analysis. [14]**

The study of literary texts from Pascal to Rimbaud as a basis for improving the comprehension of written and spoken French. Work in the language laboratory is part of the course. Prerequisite: Course 3 or an appropriate score on the placement test. Professor Gavronsky (course chairman) and Members of the Department. Section I M W F 10. Section II M W F 11. Section III M W F 12:10. Section IV M W F 1:10. Section V Tu Th 10:35-11:50. Section VI Tu Th 2:10-3:25.

**4x. French through Literary Analysis. [14]**

The equivalent of Course 4 but given in the Autumn Term. Professor Bailey (course chairman) and Members of the Department. Section I M W F 10. Section II M W F 11. Section III M W F 12:10. Section IV Tu Th 9:10-10:25. Section V Tu Th 10:35-11:50. Section VI Tu Th 2:10-3:25.

**6. Composition and Conversation. [0]**

Weekly compositions designed to improve writing skill. Review of grammar and syntax. Pronunciation, recitation, conversations based on selected readings. Work in the language laboratory is part of the course. Prerequisite: Course 4 or a satisfactory score on the placement test. Limited to 15 students. Professor Riffaterre. M W F 1:10.

**11. Advanced French Grammar. [0]**

A systematic study of morphology and syntax. Exercises and free composition. Professor Greene. M W F 12:10.

**12. History of the French Language. [9]**

A study of the distinguishing characteristics of the French language in their relation to literary expression from the Middle Ages to the present. Prerequisite: French 21, 22 or permission of the instructor. Dr. Terry. Tu 2:10-3:50.

**[13. Advanced Composition and Explication. Not given in 1972-73.]****[14. Advanced Translation. Not given in 1972-73.]****16. Advanced Oral French. [0]**

Study of spoken French. Practice in pronunciation and intonation through conversation and oral *explications de texte*. Work in the language laboratory is part of the course. Nonmajors may take the course with permission of the instructor. Professor Riffaterre. M W F 11.

**Literature Courses** For nonmajors, courses marked thus § will count toward the general college requirement. All Barnard courses are conducted in French except Courses 47 and 48.

**§20. Special Themes in Modern French Literature.**

Reading and discussion in French of selected works of contemporary interest. Textual analyses and essays. Each section will examine one of the following themes:

**I. The Writings of French Painters [2]**

Selections from Delacroix to Dubuffet. A study of the artist's views on art, aesthetics and his contemporary world. Professor Haase-Dubosc. M W F 10.

**II. Feminism. [3]**

The role and struggle of women as seen by authors of the nineteenth and twentieth centuries. Readings from feminist authors and analyses of various literary idealizations of women. Authors include Michelet, Proudhon, Flora Tristan, Zola, Maupassant, Mauriac, Saint-Exupéry, Christiane Rochefort, Nathalie Sarraute, Simone de Beauvoir. Mrs. Sayre. M W F 11.

**III. Surrealism. [12]**

The first counter-culture: Language, Art and Revolution in the works of Tzara, Breton, Eluard, Artaud, Dali, Duchamp and others. Group and individual collages, automatic writing and a theatrical event. Professor Gavronsky. M W F 12:10.

**IV. The Black Experience. [6]**

A study of negritude in the works of Haitian and African writers, stressing the themes of love, death and political commitment. Mr. Denis. Tu Th 9:10-10:25.

**§20x. Special Themes in Modern French Literature.**

The equivalent of Course 20 but given in the Autumn Term.

**I. The Theatre of the Absurd. [2]**

Adamov, Arrabal, Beckett, Genet and Ionesco. Professor Geen. M W F 10.

**II. Poetry and Poetics from Baudelaire to Surrealism. [3]**

A study of the language of poetry, with attention to major figures including Nerval, Baudelaire, Verlaine, Rimbaud, Breton and Eluard. Professor Riffaterre. M W F 11.



**III. Existentialism.****[7]**

Fiction, drama, and essays by Jean-Paul Sartre. The course will trace the development of Sartre's thought from his earliest ontological concerns to the moral and political perspectives of his later work. Professor Shroder. Tu Th 10:35-11:50.

**§21, 22. Masterpieces of Literature from the Middle Ages to the Twentieth Century.**

**[14]**

An examination of the scope and variety of French literature through analyses of the most significant works and currents from the Middle Ages to the twentieth century. Lectures, discussions and close textual analyses. Autumn Term: Medieval, Renaissance and Classical Literature. Spring Term: the Age of Enlightenment, Romanticism, Realism and Symbolism. Prerequisite: satisfaction of the foreign language requirement in French. French 21 may be taken for credit *without* completion of French 22. Professors Bailey (course chairman, Spring Term), Greene and Haase-Dubosc (course chairman, Autumn Term). Section I M W F 11. Section II M W F 1:10.

**§21y. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part I.**

**[2]**

The equivalent of Course 21 but given in the Spring Term. Professor Stanton. M W F 10.

**§22x. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part II.**

**[4]**

The equivalent of Course 22 but given in the Autumn Term. Professor Riffaterre. M W F 1:10.

**§23-24. The Culture and Institutions of France.**

**[1]**

An analysis of the major feudal institutions followed by a thematic study of Classicism, Romanticism, and the spirit of revolt leading to an appraisal of contemporary France. Primary sources and audio-visual materials will be used. Prerequisite: the same as for Course 21, 22. Professor Gavronsky. M W F 9.

**[§25-26 French Historical Prose. Not given in 1972-73.]**

**[§31. The Middle Ages. Dr. Terry. Not given in 1972-73.]**

**[§32. Renaissance and Classical Prose. Not given in 1972-73.]**

**§33. Renaissance, Baroque and Classical Poetry.**

**[2]**

The meaning and function of French poetry in the sixteenth and seventeenth centuries, from Ronsard to La Fontaine. Studies of the courtly love lyric, philosophical and political poetry, Baroque nature poetry and examples of the Classical style. Prerequisite: Course 21, 22, 23-24, 25-26 or permission of the instructor. Professor Haase-Dubosc. M W F 10.

**§34. The French Theatre of the Seventeenth Century.**

**[4]**

Corneille, Racine and Molière, Prerequisite: the same as for French 33. Professor Bailey. M W F 1:10.

**[§35. The French Theatre of the Eighteenth and Nineteenth Centuries. Not given in 1972-73.]**

**§36. Eighteenth-Century Fiction.**

**[2]**

Varieties of prose fiction, including selections from the works of

Lesage, Marivaux, Prévost, Voltaire, Rousseau, Bernardin, Diderot and Laclos. Prerequisite: the same as for French 33. Professor Geen. M W F 10.

**§37. Hugo, Baudelaire, Mallarmé. [9]**

Intensive analysis of *Les Contemplations*, *Les Fleurs du mal*, and the poetry of Mallarmé, with emphasis on the development of French poetics from Romanticism to Symbolism. Prerequisite: the same as for French 33. Professor Shroder. Tu Th 2:10-3:25.

**[§38. The Nineteenth-Century French Novel. Not given in 1972-73.]**

**[§39. Twentieth-Century French Fiction.**

Professor Shroder. Not given in 1972-73.]

**§40. Cubism, Dada, and Surrealism. [7]**

Theory and practice. Texts of Apollinaire, Jacob, Cendrars, Cocteau, Breton, Eluard, Desnos *et al.* Prerequisite: the same as for French 33. Professor Breunig. Tu Th 10:35-11:50.

**§41. Twentieth-Century French Thought. [3]**

Literature, politics and science from Surrealism to Structuralism. Readings in Breton, Aragon, Sartre, Camus, Lévi-Strauss and Roland Barthes. Prerequisite: the same as for French 33. Professor Gavronsky. M W F 11.

**[§42. Twentieth-Century French Theatre.**

Professor Geen. Not given in 1972-73.]

**[§43. Materials and Techniques of French Poetry.**

Not given in 1972-73.]

**[§44. French Women Writers.**

Professor Greene. Not given in 1972-73.]

**§47. Critics of French Culture. [12]**

The redefinition of morality and aesthetics in the works of Rousseau, Diderot, Sade, Fourier, Flaubert, Lautréamont and Mallarmé. Readings in French; lectures, discussions and papers in English. Prerequisite: satisfaction of the foreign language requirement in French. Professor Gavronsky. M W F 12:10.

**§48. The Modern French Novel. [7]**

The development of the novel from the Romantic period to the present. Authors include Stendhal, Balzac, Flaubert, Zola, Proust, Gide, Malraux, Sartre, Camus, Robbe-Grillet. Readings in French; lectures, discussions, and papers in English. Prerequisite: satisfaction of the foreign language requirement in French. Professor Shroder. Tu Th 10:35-11:50.

**Seminars** The number of students in each seminar is limited and written permission is required in advance of registration period.

**51. Le Fantastique and L'Absurde. Dr. Terry. M 2:10-3:50. [0]**

**52. Proust. Professor Riffaterre. M 2:10-3:50. [0]**

**53. Research in Modern Poetry: Claudel, Jacob, Reverdy. [0]**

Professor Greene. W 2:10-3:50.

**54. The Romantic Hero. Professor Stanton. W 2:10-3:50. [0]**

**59-60. Senior Thesis.****[0]**

Research into a precise topic of French literature and the preparation of a long essay. Open to seniors with honor grades. Students electing Course 59-60 take three one-term literature courses numbered 31-44 and one seminar; they are excused from the written major examination, and the thesis defense constitutes the oral section. Course 59 or 60 may be taken alone with special permission. Professor Shroder. Hours for consultation to be arranged.

**Graduate Courses**

The following graduate courses are given in English by members of the Barnard French Department. They are open to undergraduates only by written permission of the instructor. French majors may take them in addition to, but not in lieu of, the four literature courses and the two seminars as set forth in the major requirements.

**[G4501x. French Literature of the Nineteenth Century: the Novel.**

Professor Shroder. Not given in 1972-73.]

**[G4603x. French Poetry in the Twentieth Century.**

Professor Breunig. Not given in 1972-73.]

**G6705x. The Aesthetics of Modern Fiction.**

Professor Shroder. F 10-11:50.

**Study Abroad****C3991x-C3992y. Supervised Study in France.**

Special study under the supervision of the Director of Studies of Reid Hall in Paris. This normally involves work in an individually arranged program of courses given by various branches of the University of Paris, which may include the *Institut des Professeurs à l'Etranger*, the *Institut d'Etudes Politiques*, the *Ecole du Louvre*, and others. Prerequisite: Written permission of the major adviser and the chairmen of both the Barnard and Columbia College French Departments.

**C3997x-C3998y. Supervised Research.**

Normally this course is open only to students in consultation with and under the supervision of the Director of Studies of Reid Hall in Paris and involves individual work with an established specialist in the student's major field. Prerequisite: the same as for C3991x-C3992y.



*Professor* Leonard Zobler (Chairman; 334 Milbank Hall)

*Instructors* Toby E. Berger, Garrett A. Smith, Jr.

*Lecturer* Beverly Moss Spatt

Officers of Columbia University offering courses listed below:

*Professor* William A. Hance

*Assistant Professors* John E. Oliver, Ian R. Manners

*Lecturer* Barry N. Boots

### **Geography**

The central questions of contemporary geography spring from its total view of the earth as a habitat for man. What are the relations between the locations of the natural features of the earth's surface and man's cultural and economic activities? Can homogeneous regions, large and small, be identified and how do they evolve? Why do cities locate where they do, grow to certain sizes, develop peculiar structures, perform unique functions, and relate to one another in ways that link them into systems of cities? When are natural resources conducive or restrictive for growth and change and does the role of nature differ in advanced or emerging societies? How serious a threat are resource depletion and environmental deterioration to the survival of man?

In pursuit of the answers to these questions, and others, geographers examine the behavior of man-environment spatial systems at different times and in different places. An understanding of the dynamics of the interactions among man, resources, technology, and space suggests ways for anticipating and ameliorating contemporary environmental problems and planning for the future. Geographers thus are involved deeply in regional and urban planning in both developed and under-developed regions.

A knowledge of earth science and social science is an essential part of geographic training. Geography 1, 2, 3, 4, and a year seminar (59, 60) are required. During the seminar a senior essay is prepared, usually based on original field research. The remainder of the major is tailored to the student's interests, which usually are along one of the following paths: natural resources, specialization in a region, as Africa, Latin-America, U.S.S.R., or Anglo-America, or a substantive field as urban geography, agriculture, manufacturing, location theory or physical geography.

In the place of a major examination each student in the senior seminar (59, 60) will prepare an essay.

## Environmental Conservation and Management

Conservation is concerned with man's stewardship of the earth as his home and the proper management of its resources. The particulars of this program will be found on pages 55-57 under **Interdepartmental Majors**.

## Geography

### 1, 2. Environmental Science.

The natural environment of man viewed as the fusion of spatially interacting processes, cycles, and forms close to the earth's surface. Environmental modifications and deteriorations caused by pressures of urbanism, technology, and population. Autumn Term: disturbances of natural equilibria induced by human settlement patterns and activities on air, water, soil, landform, open space, biota, and on man himself. Remedial measures and conservation issues. Spring Term: ecosystem analysis of pristine and altered biomes, natural resource-using systems of agro-industrial society and their degenerative feedbacks. Ecologic surveying for town, country, and regional planning for environmental stability. The city as a unique habitat and elements of man-designed environments. Lectures are given jointly with Columbia College. Permission for laboratory assignment required. Professors Manners, Oliver, Zobler. Lec. Tu Th 12. Lab. M 2:10-5, Tu 9-11:50, W 2:10-5, Th 9-11:50; 2:10-5.

### 3. Agricultural Development and Agrarian Societies. [10]

An ecologic and economic review of world agriculture and associated rural institutions according to natural biomes. Differential roles of land, labor, and capital in productivity. Special attention will be given to population and food supply, land reform and agricultural policy, rural-urban migration, agriculture and economic growth, and land and soil exhaustion. Case studies, individual or group reports, and possible field trips. Professor Zobler. M W 3:10.

### 4. Ecology of Urban-Industrial Society. [0]

The geographic and technologic correlates of urban-industrial society. The restructuring of an agrarian economy under the impact of the industrializing process. Rural-urban population flows, raw material inputs, manufactural and transport patterns, regional growth and world urbanization, city structure and central place systems, and environmental change viewed as elements in an industrial ecosystem. Two field trips and reports. Mr. Smith. Tu Th 2:10-3.

### 17. Cartography. [0]

The use and preparation of maps for illustrative, thematic, and statistical purposes. Practice in map construction and the use of drafting instruments. Choice of appropriate projections, legends, and symbolism. Introduction to air photo analysis, remote sensing, and computer mapping. Permission of the instructor required. Mr. Smith. M 2:10-5.

### [31. Environmental Policy. Not given in 1972-73.]

### [32. Transportation and Land Use. Not given in 1972-73.]

### 33. Environmental Planning and Perception. [4]

Introduction to planning theory and practice with an emphasis on the environmental quality of the core cities and surrounding suburbs of metropolitan areas. Special topics include housing, waste disposal,

land use, transportation, open space, neighborhoods, and citizen participation and confrontation. Examples taken from New York City and new towns. Permission of the instructor required. Mrs. Spatt. F 1:10-3.

**W4011x. Pedology and Soil Resources.**

Introduction to the biogeochemistry of soils and their genesis, morphology, and classification. The ecology, management, and conservation of soils for agrarian and urban uses. Occasional laboratory exercises and two one-day field trips on soil mapping for land use planning and zoning. Given alternately with W4012x. Professor Zobler. Tu 3:10-5, Th 3:10-4.

**[W4012x. Hydrology and Water Resources.**

Professor Zobler. Not given in 1972-73.]

**W4014y. Conservation Theory and Environmental Management.**

Impact of ecosystem analysis and conflicts over environmental quality control on conservation theory. The role of economic, political, managerial, perceptual, and scientific factors in shaping decision criteria for allocating natural resources. Ecologic survey methods for environmental planning: parks; unique habitats; agricultural, commercial, and industrial locations; pollutional effluents; and open space in metropolitan areas. Case study reports. Professor Zobler. Tu Th 3:10-4.

**C3019x. Problems of Developed and Underdeveloped Areas.**

Introduction to the theory and methodology of economic and regional geography through the analysis of problems of developed (Western European) and underdeveloped (African) areas. Topics include: population, resources, infrastructural and sectoral studies, regional development, integration and disintegration, and urban problems. Professor Hance. Tu Th 11-12:15.

**C3501y. Africa.**

Analysis of the physical, economic, and human resources of African regions. Emphasis on the potentialities and external and internal impediments affecting their present and future development. Professor Hance. Tu Th 11-12:15.

**W3015x. Landform Evolution and Analysis.**

A physical-geographic analysis of landforms and the surficial processes resulting in their modification. Special consideration is given to man's role in modifying the rates at which such processes occur and their environmental consequences. Analysis of topographic maps and air photos. Professor Oliver. Tu Th 10. Third hour to be arranged.

**W3041x. Urban Geography.**

Demographic background to urbanization; origin and nature of cities; contrasting city typologies. Internal spatial structure of pre-industrial and industrial cities. The metropolitan region and urban systems. Mr. Boots. M W 11-12:15.

**W3071x-W3072y. Quantitative Techniques in Geography.**

Theory and techniques of measuring geographic distributions. Descriptive and analytical methods (regression, factor analysis) useful in dealing with areal associations and interactions. Introduction to "packaged" programs useful for displaying and analyzing spatial patterns (including Symap and Trend Surface). Additional



selected programs (point pattern analyses, frequency distributions, and taxonomic procedures). Mr. Boots. M W 2:40-3:55.

**[W4025y. General Climatology.**

Professor Oliver. Not given in 1972-73.]

**59, 60. Seminar in Geography.**

**[0]**

Readings, discussions, and reports on various topics from the research literature. Preparation of the senior essay. Required of senior majors. Professor Zobler. Hours to be arranged.

**Graduate Courses**

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



*Professor* John E. Sanders (Chairman; 328B Milbank Hall)

Officers of Columbia University offering courses listed below:

*Professors* Roger L. Batten, Wallace S. Broecker, Rhodes W. Fairbridge,  
Paul W. Gast,<sup>1</sup> Ralph J. Holmes, John E. Nafe, Manik Talwani

*Associate Professors* Ian Dalziel, Arnold L. Gordon, James D. Hays, Peter J. M. Ypma

*Assistant Professors* Robert Kay, David L. Campbell (Mining), H. James Simpson

*Adjunct Professor* Robert Jastrow

*Adjunct Associate*

*Professor* Richard C. J. Somerville

*Lecturer* Vivien Gornitz

<sup>1</sup> Absent on leave, 1972-73.

**Geology** Geology deals with the study of the earth, applying various aspects of all modern sciences, especially chemistry, physics, and biology. The central theme of geology involves the many interwoven reactions which constitute the geologic cycle. The geologic cycle results from the effects of solar energy on the earth and on the organisms inhabiting the earth. In addition, the cycle depends on internal energy from the earth itself, which powers various igneous and tectonic processes. Geology is concerned with an understanding of how the operations of the geologic cycle in various environments through time have shaped the earth's surface and have created the geologic record. In the geologic record are preserved a decipherable history of past environments and of the progression, through time, of the populations of organisms that have inhabited the earth. A pressing modern concern of geology deals with the interactions between man's technologic cycle and the natural geologic cycle.

The first year of study may be selected from among three sequences: (1) a broad, general introductory course (V1021x, V1022y), (2) an introductory course emphasizing ocean science (V1031x) and planetary geology (V1032x), or (3) an introductory course emphasizing man's physical environment (V1041x). A year's work satisfactorily completed in any of the sequences fulfills the laboratory science requirement. With permission of the department a student may enter advanced courses in geology after completing one of these sequences.

Students having extensive preparation in mathematics, physics, and chemistry who desire to apply these disciplines to the study of the earth should enroll in V1051x and V1052y.

Major programs include three options: Option A: pre-professional preparation in non-biologic aspects of geology; Option B: pre-professional preparation in biologic aspects of geology;

Option C: Earth Science major, including selected fields of study within geology and physical geography. Geologic concentration in problems of the coastal zone is also possible in Barnard's interdepartmental program on Environmental Conservation and Management.

Students electing any of the major options will take a sequence of courses which will be worked out in consultation with their major adviser. Majors in geology should plan to spend at least one summer in geologic mapping at an approved geologic field camp, in research activities at an oceanographic institution, or as a participant in an approved field research program being carried out elsewhere.

There is no major examination, but a satisfactory research paper prepared in conjunction with a senior seminar is required.

Students contemplating graduate study in geology should plan their programs to include a reading knowledge of two modern foreign languages (German, French or Russian generally), and a year course in chemistry, physics, and mathematics (including calculus for students choosing major Option A, and statistics for major Option B).

## Environmental Conservation and Management

Conservation is concerned with man's stewardship of the earth as his home and the proper management of its resources. Students in the interdepartmental program in Environmental Conservation and Management who desire to concentrate in coastal studies are required to take as electives Geology W4226y, Environmental Conservation and Management 48, and TK 4802 (Teachers College), and to carry out their research in some coastal project. The core courses and further particulars of the program are found on pages 55-57 under **Interdepartmental Majors**.

### V1021x. Physical Geology.

The composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. Laboratory includes study of common rocks and minerals, of contour maps as means of depicting the earth's morphology, and of geologic maps to infer the subsurface structure of the earth's crust, and three required field trips to local geologic features: Fire Island, Edgewater, N.J., and Fort Tryon Park. Professor Sanders and staff. Lec. M W F 10; Lab. (3 hours) Sections: (I) M 2:10-5; (II) Tu 9-11:50; (III) 2:10-5; (IV) W 2:10-5; (V) Th 9-11:50; (VI) 2:10-5.

### V1022y. Historical Geology.

The history of the earth and of the life upon it from the beginning to modern times. The laboratory and assigned work include study of invertebrate fossils and of geologic maps and structures, museum



trips, short field trips, and a required one-day field trip to Catskill, N.Y. A research paper on a geologic topic is due on April 20. Pre-requisite: V1021x. Professor Sanders and staff. Lec. M W F 10. Lab. (3 hours) Sections: (1) M 2:10-5; (2) Tu 9-11:50; (3) 2:10-5; (4) W 2:10-5; (5) Th 9-11:50; (6) 2:10-5.

**V1031y. Ocean Science.**

The course initially considers the ocean basins as geological features and reviews the recent exciting research in continental drift and the origin of ocean basins. The ocean water is considered as a life-support system and the role of circulation and nutrient supply is examined. In the light of the workings of the natural system, man's influence on the ocean is studied. Relationship of oceanic processes to climate and weather. Laboratories deal with some of the current techniques used in ocean research. Recommended preparation: high-school physics, chemistry and mathematics. Professor Hays. Lec. Tu Th 9. Lab. hours to be arranged.

**V1032x. Planetary Geology.**

New perspective on the earth derived from recent observations of the Moon, Mars, Venus, and meteorites. Evolution of the morphologies and atmosphere of these objects. The bearing of new data on some long-accepted views of earth history. The role that geologic processes have in determining the conditions of life on the planet Earth. The genesis of oxygen in Earth's atmosphere and the creation of oceans on the Earth's surface. Laboratories will deal with photographic, seismic, chemical and other techniques used for planetary studies. Recommended preparation: some background in high school physics, chemistry and mathematics. Professor Jastrow and Dr. Gornitz. Lec. M 9-11; W 10-11. Lab hours to be arranged.

**V1041x. Man's Physical Environment.**

Processes taking place in the earth's lithosphere, hydrosphere and atmosphere which bear on man's attempt to cope with his environment. Topics such as pollution control, weather modification and earthquake prediction will be considered. Lectures deal with global aspects of these problems and laboratories with the urban aspects. Emphasis is placed on the role of the scientist; an attempt is made to integrate the economic, political and sociological implications. Recommended preparation: some background in high school physics, chemistry and mathematics. Professor Broecker. Lec. M W 6:10-7:25. Lab. hours to be arranged.

**V1051x. Principles of Geology, I.**

Materials, forms, structures and processes that occur at the earth's surface. Development of the earth's surface in time. Geology as a factor in determining man's physical environment. Occasional lectures by research scientists on subjects of current interest. Prerequisite: high school chemistry, physics and mathematics. Corequisite: a term of physics or chemistry. This course is pre-requisite for advanced undergraduate geology courses. To be taken together with Geology V1052 in either order, with permission of the instructor. Professor Nafe. Tu Th 4:10. One 2-hour laboratory-conference a week and field trips to be arranged.

**V1052y. Principles of Geology, II.**

Materials, forms, structures and processes that occur within the earth. Endogenetic processes that governed the earth's development in time. Reaction rates and equilibria within the earth's crust.

Occasional lectures by research scientists on subjects of current interest. Prerequisite: high school chemistry, physics and mathematics. Corequisite: a term of physics or chemistry. Professor Nafe. Lec. Tu Th 4:10. One 2-hour laboratory-conference period a week and field trips to be arranged.

**V3045x. Elements of Structural Geology.**

Training in the recognition and interpretation of geologic structures both in the field and on geological and topographical maps. Prerequisite: Course V1051x, V1052y, or permission of the department; W4113x, W 4114y. Professor Dalziel. Tu Th 11. Lab. Tu 2:10-5. Field work to be arranged.

**V3522y. Exploration Geology and Mining Geophysics, I.**

The geological environment of mineral deposits and their structural control. Ore genetical principles as a guide to mineral deposits. Geochemical and geophysical anomalies related to mineral deposits, their detection and interpretation. Prerequisite: V1051x, V1052y, or W4007. Professors Ypma and Campbell. M W F 10.

**[V3902y. Introduction to Geophysics.**

Professor Talwani. Not given in 1972-73.]

**W4008x. Introduction to Atmospheric Science.**

Observational data concerning the atmosphere; radiative, convective and turbulent processes; equations of motion of geophysical fluid dynamics; general circulation and thermal structure of the atmosphere; physics and dynamics of clouds; meteorological satellite and new observation systems. Open to seniors majoring in one of the physical sciences. Professors Somerville and Jastrow. M W 9-10:30.

**W4113x. Elements of Mineralogy and Crystallography — Nonsilicates and Ore Minerals.**

Crystallography, including principles of symmetry, internal structure of crystals, coordination, bonding, and external crystal form. Physical properties, occurrence, mode of origin, and the economic and geologic significance of the ore minerals and the nonsilicates. Application of physical properties and chemical tests in the recognition of minerals. Given in sequence with Geology W4114y. Prerequisite: Geology V1051x, V1052y, and elementary college physics, and chemistry, or permission of the instructor. Professor Holmes. Tu Th 11. Lab. Tu 1:10-4.

**W4114y. Elements of Mineralogy and Crystallography — Silicates and Rock-Forming Minerals.**

Physical properties, occurrence, mode of origin and geologic significance of the more important silicates and other rock-forming minerals. Application of physical properties and chemical tests in the recognition of minerals. Given in sequence with Geology W4113. Prerequisite: W4113x, elementary physics and chemistry, or permission of the instructor. Professor Holmes. Tu Th 11. Lab. Tu 1:10-4.

**W4120y. Analytical Mineralogic Techniques.**

Analytical methods for mineral identification and study, including the polarizing petrographic microscope, the reflecting polarizing microscope, x-ray diffraction (both powder and single crystal methods), x-ray fluorescence, and differential thermal analysis. Prerequisite: Course W4113x and W4114y or equivalent. Professor Holmes. Tu Th 10. Lab. Th 1:10-3.

- W4327x. Principles of Geomorphology.**  
Lectures, map study, and readings on geomorphic principles. The origin of surface features of the earth as controlled by the interaction between geologic structures and erosional processes. Prerequisite: one year of geology. Professor Fairbridge. M W F 1:10. Lab. W 3:10-5.
- W4009x. Chemical Geology, I. Atomic Structures and Physical Properties of Solids.**  
Atomic theory, bond theory, lattice types, the interaction of electromagnetic waves and solids; x-ray crystallography, crystal chemistry of common oxides, sulfides and rock-forming minerals. Prerequisite: W4113x or its equivalent, or permission of the instructor. Professors Broecker, Kay, and Ypma. Lec. M W 11-12:30. Lab. M 1:10-2:30.
- W4010y. Chemical Geology, II. Fundamental Concepts in Chemical Equilibria and Petrology.**  
Thermodynamical properties of solids, stable and unstable isotopes, statistical mechanics of geological processes, phase equilibria involving solids and liquids, sulfides, carbonates, and rock-forming minerals. Prerequisite: W4009x or permission of the instructor. Professors Ypma, Kay, and Broecker. Lec. M W 10:30-12. Problem Session 1 hour a week, to be announced.
- W4661x. Introduction to Paleontology.**  
A systematic survey of the morphology, ecology, taxonomy, and geologic history of groups of invertebrate animals commonly found as fossils. Prerequisite: V1021x and V1022y or permission of the instructor. Professors Batten and Hays. Lec. M W 11. Lab. F 2:10-4.
- W4226y. Marine Sedimentology.**  
Theory and techniques of modern marine sedimentology, including processes associated with deposition and diagenesis. Prerequisite: W4113x, W4114y, W4661x, and one term of college chemistry. Expenses: \$10. Professor Sanders. Lec. M W 1:10. Lab. W 2:10-4.
- W4701x. Introduction to Petrology.**  
The classification and genesis of igneous, sedimentary, and metamorphic rocks. The major rock types will be examined in hand specimens and under the microscope. Prerequisite: V1051x, V1052y and elementary knowledge of physics and chemistry. Professor Kay. Lec. Tu Th 5:10. Lab: 2 hours to be arranged.
- W4927x. Introduction to Oceanography.**  
Physical and chemical oceanography — the treatment will be quantitative. Properties of sea water; water masses and their distribution; sea-air interaction influence on the ocean structure; basic oceanic circulation pattern; relation of diffusion and advection with respect to distribution of ocean elements; measurement techniques and methods of data processing and analysis. Prerequisite: basic mathematics and inorganic chemistry. Professors Gordon and Simpson. Lec. & Lab. Tu Th 6:30-8.
- 60. Seminar in Geology.** [0]  
A seminar course with discussions, problems, and readings on various problems in geology. Prerequisite: a year of geology. Required of senior majors. Professor Sanders. Hours to be arranged.



## Columbia Courses

The following courses are open to qualified students with the permission of the Barnard chairman. Courses in brackets are given only in alternate years, and will not be given in 1972-73.

- W3048y. Introduction to Field Geology.
- W4030y. Climatic Change.
- W4049x. World Regional Geology.
- W4053x. Geology of the New York Region.
- W4411x. Principles of Structural Geology.
- W4941x. Principles of Geophysics.
- W4883x. Principles of Geochemistry.
- W4521x. Exploration Geology and Mining Geophysics.
- TK4802. (Teachers College). Coastal Oceanography.
- [G4226y. Biostratigraphy.]



<i>Associate Professors</i>	Brigitte L. Bradley (Chairman; 320B Milbank Hall), Gertrud M. Sakrawa
<i>Assistant Professor</i>	Frederick G. Peters
<i>Instructor</i>	Elisabeth McLaughlin

The courses in the German Department are designed to develop proficiency in all the language skills, to present the German cultural and literary tradition in its European context, and to study the works of important German, Austrian, and Swiss writers. The literature courses taught in German are open to all students who have completed German 4, 4x, or the equivalent. For students who do not know German the department offers a series of courses in German literature in English translation. A student majoring in German will aim at fluency in the language and at a fundamental understanding of the intellectual currents and literary developments in the German speaking countries. In consultation with her major adviser she will plan a program which includes German 5 (or the equivalent) and eight literature courses, one of which is to be a colloquium. In addition, she may select subjects from other fields in accordance with her own special interests. Students interested in a major in German are urged to consult with the department as early as possible to work out an accelerated language program.

The major examination consists of a three-hour written section (in English) and of an individual oral exam of a half hour (in German). The senior essay (Course 62) will replace the written section.

Students who elect German as part of a combined major will work out their special program in consultation with the departments concerned.

**Foreign Language Requirement for the Degree:** The completion of German 4 or 4x satisfies the requirement. Students who had prior training in German and who wish to fulfill their foreign language requirement in German will be placed in the appropriate courses on the basis of their CEEB scores or, if such are not available, on the basis of a proficiency test taken before registration. If their CEEB scores or their scores on the proficiency test are sufficiently high, they will be automatically exempted from the requirement. Transfer students should consult with the department.

**Language Courses**

- 1-2. Elementary Full-Year Course.** [0]  
 Elements of grammar, easy reading, written and oral practice. Professor Sakrawa and Mrs. McLaughlin. Section I M W F 9. Section II M W F 12:10. Required oral sections may be chosen as follows: Section I Tu Th 9. Section II Tu Th 11.
- 1y. Elementary Full-Year Course. Part I.** [0]  
 Same as Course 1, but given in the Spring Term. Professor Peters. M Tu W Th F 9.
- 2x. Elementary Full-Year Course. Part II.** [0]  
 Same as Course 2, but given in the Autumn Term. Mrs. McLaughlin. M Tu W Th F 9.
- 3. Intermediate Course.** [15]  
 Close reading and rapid reading, grammar review, practice in speaking and writing. Professor Sakrawa and Mrs. McLaughlin. Section I M W F 10. Section II M W F 1:10.
- 3y. Intermediate Course.** [4]  
 Same as Course 3, but given in the Spring Term. Mrs. McLaughlin. M W F 1:10.
- 4. Literary Appreciation.** [15]  
 Study of German based on a variety of readings. Stylistic analysis. Practice in speaking and writing. Professor Sakrawa and Mrs. McLaughlin. Section I M W F 10. Section II M W F 12:10.
- 4x. Literary Appreciation.** [2]  
 Same as Course 4, but given in the Autumn Term. Professor Bradley. M W F 10.
- 5. Advanced Oral German and Composition.** [0]  
 A variety of short readings as a point of departure for discussions and stylistic exercises. Emphasis on idiomatic usage and syntactical structures in order to develop fluency in speaking and proficiency in writing. Professor Sakrawa. M W F 1:10.
- 7-8. Elementary Reading Course.** [3]  
 Introduction to the comprehension of expository German. Recognition of structures, basic vocabulary, stylistic traits. Classes conducted in English. The course may not be used to fulfill the language requirement. Professor Peters M W F 11.

**Literature Courses**

For nonmajors, courses marked thus § will count toward the general college requirement. All courses are conducted in German except Courses 32x, 50, 55, and 56. Prerequisites for courses taught in German: Course 4, 4x, or the equivalent. All examinations are written in English. Students may write their papers in German or English.

- §11. Studies in German Literature** [3]  
 Selected works from Lessing to Brecht. Thematic analyses in the context of concurrent cultural trends and prevailing social conditions, and some stylistic analyses. Readings include plays, narratives, and a few poems. Professor Bradley. M W F 11.



- [§12. **Main Currents in German Literature and Culture.**  
Professor Bradley. Not given in 1972-73.]
- [§15. **Goethe and Schiller.** Professor Sakrawa. Not given in 1972-73.]
- [§16. **German Romanticism.** Professor Sakrawa. Not given in 1972-73.]
- §25y. **Great German Dramatists and Theaters of the 19th Century.** [1]  
A study of works by Schiller, Kleist, Grillparzer, Büchner, Hebbel, Wagner, and Hauptmann and of major theaters and their traditions, e.g., that of Weimar, Vienna, Bayreuth, Neue Freie Bühne. Professor Sakrawa. M W F 9.
- [§26x. **Modern German Theater.**  
Professor Bradley. Not given in 1972-73.]
- [§27y. **The German Novel and Novella from Goethe to Thomas Mann.**  
Professor Sakrawa. Not given in 1972-73.]
- §28. **Modern German Prose Fiction.** [7]  
Trends in narrative writing. Analysis of works by authors such as Kafka, Böll, Johnson, Frisch, Grass, Lenz, Wolf. Professor Bradley. Tu Th 10:35-11:50.
- §32x. **German Poetry in Our Century.** [5]  
The works of Rainer Maria Rilke, Gottfried Benn, Ingeborg Bachmann, and Nelly Sachs considered in terms of modern poetics. Readings include some of the authors' prose or theoretical writings. Professor Bradley. M W F 2:10.
- [§36. **Goethe's Faust.** Professor Sakrawa. Not given in 1972-73.]
- §45y. **Literary Traditions in the Times of the Medieval Empire.** [3]  
A study of German literary works from the Age of Chivalry to the Age of the Reformation with a view to their historical background and with emphasis on the shifts of European imagination and thought. Readings from the *Nibelungenlied* and *Parzival* to the *Historia of Dr. Faustus*. Professor Bradley. M W F 11.
- [§46. **From Humanism to the Age of Enlightenment.**  
Professor Bradley. Not given in 1972-73.]
- §61. **Colloquium. Weimar Classicism.** [0]  
A study of the works of Goethe and Schiller in their classical period, including Goethe's *Faust*. Introductory lectures and class discussions. A term paper on a topic to be chosen by the student, in English or German. Professor Sakrawa. M W F 9.
62. **Senior Essay.** [0]  
Senior essay, based on the work of Course 61 or on individual research. Regular consultations with the instructor at hours to be arranged.
50. **An Author's Work in Translation: Franz Kafka** [9]  
Kafka's writings considered in relation to his contemporaries, the Expressionists, and viewed as narrative structures that reflect twentieth century assumptions concerning reality and the self. A knowledge of German is not required. Professor Bradley. Tu Th 2:10-3:25.

- 55y. Masterpieces of German Literature in Translation.** [5]  
A study of major works of the Middle Ages, the Enlightenment, Storm and Stress, Classicism, Romanticism, and 19th century Nihilism. Among works and authors to be read: *Tristan*, Lessing, Goethe, Schiller, Büchner, Nietzsche, and Mann. A knowledge of German is not required. Professor Peters. M W 2:10-3:25.
- 56x. Modern German Literature in Translation.** [5]  
A study of significant dramatists and novelists of the 20th century, with some consideration given to the influence of Marxism and psychoanalysis. Ibsen, Strindberg, Brecht, Mann, Kafka, Musil, Frisch, and others. A knowledge of German is not required. Professor Peters. M W 2:10-3:25.
- [W3673y. German Lyric Poetry from Goethe to Nietzsche.**  
Professor Bauke. Not given in 1972-73.]



<i>Professor</i>	Helen H. Bacon (Chairman; 217 Milbank Hall)
<i>Associate Professor</i>	Lydia H. Lenaghan
<i>Instructor</i>	Ann Cornell Sheffield
<i>Lecturer</i>	Vassilios Christides

Officers of Columbia University offering courses listed below:

<i>Professors</i>	William M. Calder III, Henry S. Commager, Jr., Walther Ludwig, Howard N. Porter, Leonardo Tarán
<i>Associate Professors</i>	Coleman H. Benedict, <sup>1</sup> James A. Coulter
<i>Assistant Professors</i>	Peter Pouncey, Seth L. Schein, Peter Smith, <sup>1</sup> Joseph Solodow, Richard L. Wertis
<i>Preceptors</i>	Cheryl Cole, Karl Schlebusch, Eleanor Wimette

<sup>1</sup> Absent on leave, Spring Term.

The general objectives toward which the work of the department is directed are a knowledge of the language and an understanding of the literature and civilization of the ancient Greeks and Romans. The emphasis varies in accordance with the student's interests.

A major in Greek: Eight courses in Greek above the elementary course. These must include Greek V3319 or V3320, and either Greek-Latin 61, 62 or Greek V3105x-V3106y.

A major in Latin: Eight courses in Latin above the elementary course. These must include Latin V3319 or V3320, and either Greek-Latin 61, 62 or Latin V3105x-V3106y.

A major in Greek and Latin combined may be arranged for qualified students on consultation with the major adviser.

Students who complete Greek or Latin V3998x or y with distinction, and whose other work in the major is of sufficiently high quality, will be eligible for the degree with honors.

Other fields: Courses in ancient art, archaeology, history, philosophy, other languages, and linguistics are strongly recommended.

Barnard College participates in the program of the Intercollegiate Center for Classical Studies in Rome. Greek and Latin majors who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be counted toward the major and, in some cases, toward the fulfillment of the general requirements.



Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open, without fee, to graduates of the College.

Foreign Language Requirement for the Degree: Students may fulfill the foreign language requirement in Greek or Latin either by completing Greek 11, 12 or Latin 3, 4, or one semester above Greek 12 or Latin 4; or by passing an exemption examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin.

## Classics in Translation

[Classical Literature 35. The Ancient Novel. Professor Bacon. Not given in 1972-73.]

Classical Literature 32x. Classical Myth. [2]  
A survey of major myths from the ancient near east to the advent of Christianity, with emphasis upon the content and treatment of myth in classical authors (Homer, Hesiod, Aeschylus, Sophocles, Vergil, Livy, Ovid). Professor Lenaghan. M W F 10.

Classical Literature V3123y. Greek Drama and Its Influences.  
The major Greek tragedies and comedies, and their influence on Roman and later European drama. Some attention is paid to the problems of the origin of Greek drama, the production of plays, and the dramatic criticism of Aristotle. Miss Sheffield. M W F 11.

[Classical Literature V3201x. The Social and Political Ideas of Plato.  
Professor Schein. Not given in 1972-73.]

Classical Civilization V3155x. The First Philosophers.  
The nature and origins of philosophical thinking in sixth and fifth century B.C. Greece; beginnings and development of *a priori* speculation; the logical impasse confronting the Sophists and Socrates; modern attempts to explain the birth of philosophy with the aid of empiricism, Marxism, structuralism, mythology, and common sense. Two lectures and one discussion meeting. Professor Smith. M W F 1:10.

Classical Civilization V3156y. Roman Religion.  
The agricultural origins, the calendar, the priesthoods. Hellenization and the mystery religions. The Augustan restoration and the imperial cult. The challenge of Christianity. Professor Lenaghan. M W F 10.

Greek Language and Literature For nonmajors, courses marked thus § will count toward the general college requirement.

1-2. Elementary Full-Year Course. [2]  
Grammar, composition, and reading. Course 1 is prerequisite to Course 2. Professor Bacon. M Tu W F 10.

- W1101x-W1102y or W1101y. Elementary Course.**  
Equivalent to Course 1-2.  
W1101x. Sec. 1: Professor Coulter. M W F 11-12:15. Sec. 2: Miss Wimette. M W F 6:10-7:25. W1101y. Professor Wertis. M W F 6:10-7:25. W1102y. Sec. 1: Professor Schein. M W F 11-12:15. Sec. 2: Miss Cole. M W F 6:10-7:25.
- §11. Prose and Poetry. [2]**  
Selections from Lysias, Herodotus, and elegy. Prerequisite: Course 1-2, or the equivalent. Miss Sheffield. M W F 10.
- §W1201x. Prose and Poetry.**  
Equivalent to Course 11. Professor Schein. M W 4:10-5:25.
- §12. Selections from Homer. [17]**  
Prerequisite: Course 11 or permission of the instructor. Miss Sheffield. M W 4:10-5:25.
- §W1202y. Homer.**  
Equivalent to Course 12. Professor Coulter. M W 11-12:25.
- §V3305x. Tragedy.**  
Aeschylus, *Prometheus*; Sophocles, *Antigone*; Euripides, *Troades*. A reading of three Greek plays set against their historical and political background. Prerequisite: Course 12, or the equivalent. Given every other year in alternation with Course V3307x. Professor Calder. M W 11-12:15.
- §V3306y. Historians.**  
Thucydides: *Book I-Book II*, 65; analysis of the argument emerging from the balance between narrative, speech, and excursus. Prerequisite: Course 12, or the equivalent. Given every other year in alternation with Course V3308y. Professor Pouncey. Tu Th 4:10-5:25.
- [§3307x. Comedy. Not given in 1972-73.]**
- [§V3308y. Philosophy. Professor Bacon. Not given in 1972-73.]**
- §V3309x. Selections from Greek Literature, I.**  
Plato's *Gorgias*. A close study of the text of the dialogue and of the questions it raises, intended for those who wish to gain a linguistic mastery of the text as well as a command of the argument. Prerequisite: Course 12, or the equivalent. Professor Smith. Tu Th 11-12:15.
- §V3310y. Selections from Greek Literature, II.**  
Lyric poets, including Sappho, Alcaeus, and Pindar. Prerequisite: Course 12, or the equivalent. Professor Porter. Tu Th 1:10-2:25.
- V3319x. Prose Composition, II.**  
The writing of sentences and of connected passages in Greek. Prerequisite: at least four terms, or the equivalent, of Greek. Professor Solodow. W 2:10-4.
- [V3320y. Prose Composition, II. Not given in 1972-73.]**
- V3997x or y. Directed Reading.**  
To be tested by a series of short papers, one long paper, or an oral or written examination. Members of the Barnard and Columbia Departments. Hours to be arranged.

**V3998x or y. Supervised Research in Greek Literature.**

A program of research in Greek literature, with the composition of a paper embodying results. Prerequisite: permission of the chairman of the department. Members of the Barnard and Columbia Departments. Hours to be arranged.

**§V3105x-V3106y. History of Greek Literature.**

Lectures based on extensive readings in Greek literature from Homer to the fourth century A.D. Prerequisite: at least two terms of Greek beyond Course 11, 12. V3105x, Professor Calder. M 2:10-4, and a third hour to be arranged. V3106y, Professor Tarán. M 4:10-6, and a third hour to be arranged.

**Greek-Latin 61, 62. Comparative Readings in Greek and Latin Literature. [9]**

Greek and Roman writers examined and compared through a study of selected genres. Students proficient in only one language may read authors of the other language in translation. Oral reports, short paper, final examination. Open to juniors and seniors with permission of the instructor. Autumn Term: epic, historiography, oratory. Professor Lenaghan. Th 2:10-4, and a third hour to be arranged. Spring Term: didactic poetry, lyric, drama. Professor Bacon. Tu 2:10-4, and a third hour to be arranged.

**Latin Language and Literature** For nonmajors, courses marked thus § will count toward the general college requirement.

**1-2. Elementary Full-Year Course. [3]**

Grammar, composition, and reading. Course 1 is prerequisite to Course 2. Miss Sheffield. M W F 11-12:15.

**W1101x-W1102y Elementary Course.**

Equivalent to Course 1-2. W1101x. Sec. 1: Professor Benedict. M W F 11-12:15. Sec. 2: Professor Wertis. M W F 6:10-7:25. Sec. 3: Mr. Schlebusch. M W F 2:10-3:25. W1102y. Sec. 1: Professor Wertis. M W F 11-12:15. Sec. 2: Miss Wimette. M W F 6:10-7:25. W1101y. Mr. Schlebusch. M W F 6:10-7:25.

**§3. Cicero: Selections. [4]**

Prerequisite: Course 1-2, or two or three years of high school Latin. Professor Lenaghan. M W F 1:10.

**§W1201x or y. Cicero.**

Equivalent to Course 3. W1201x. Professor Benedict. M W F 10. W1201y. Professor Tarán. M W 1:10-2:25.

**§4. Vergil: Selections from the Aeneid. [4]**

Prerequisite: Course 3, or two or three years of high school Latin. Miss Sheffield. M W F 1:10.

**§W1202x or y. Vergil.**

Equivalent to Course 4. W1202x. Professor Porter. Tu Th 6:10-7:25. W1202y. Professor Calder. M W 4:10-5:25.

**§V3012x. Lyric Poetry.**

Selections from Catullus and Horace. Prerequisite: Course 4, or four years of high school Latin. Professor Porter, Miss Sheffield, Professor Wertis. Section I Tu Th 11-12:15. Section II M W F 1:10. Section III M W F 4:10.

**§V3011y. Myth and Pastoral.**

Selections from Livy; Vergil's *Eclogues*. Prerequisite: Course V3012x,



or four years of high school Latin. Professors Solodow and Lenaghan. Section I Tu Th 11-12:15. Section II M W F 1:10.

**§33y. Medieval Literature. [5]**

A survey of representative late Latin and Medieval texts; readings from the Church Fathers, sacred and secular lyric, history, romance, satire, and biography. Prerequisite: Permission of the instructor. Professor Lenaghan. M W 2:10-3:25.

**[§V3305x. Historians. Professor Benedict. Not given in 1972-73.]**

**§V3306y. Satire.**

Satires of Horace and Juvenal; studies in the history of satire. Prerequisite: Course V3011y, or the equivalent. Given every other year in alternation with Course V3308y. Professor Commager. M W 2:10-3:25.

**§V3307x. Elegiac Poetry.**

Selections from Tibullus, Propertius, and Ovid. Prerequisite: Course V3011y, or the equivalent. Given every other year in alternation with Course V3305x. Professor Commager. Tu Th 4:10-5:25.

**[§V3308y. Philosophy. Professor Benedict. Not given in 1972-73.]**

**§V3309x. Selections from Latin Literature, I.**

Selections from Ovid: The *Metamorphoses*, the poems of exile, and others. Prerequisite: Course V3011y, or the equivalent. Professor Solodow. M W F 10.

**§V3310y. Selections from Latin Literature, II.**

Apuleius, *The Golden Ass*. Apuleius as a teller of tales, humorous, romantic, fantastic. Prerequisite: Course V3011y, or the equivalent. Professor Bacon. Tu Th 11-12:15.

**[V1109x-V1110y. Prose Composition, I. Not given in 1972-73.]**

**V3319y. Prose Composition, II.**

The writing of sentences and of connected passages in Latin. Prerequisite: at least four terms, or the equivalent, of Latin. Professor Wertis. F 1:10-3.

**[V3320y. Prose Composition, II. Not given in 1972-73.]**

**V3997x or y. Directed Reading.**

To be tested by a series of short papers, one long paper, or an oral or written examination. Members of the Barnard and Columbia Departments. Hours to be arranged.

**V3998x or y. Supervised Research in Latin Literature.**

A program of research in Latin literature, with the composition of a paper embodying results. Prerequisite: permission of the chairman of the department. Members of the Barnard and Columbia Departments. Hours to be arranged.

**§V3105x-V3106y. History of Latin Literature.**

Lectures based on extensive readings in Latin literature from the beginning to the fourth century A.D. Prerequisite: at least two terms beyond Course V3012x, V3011y. V3105x, Professor Commager. Tu Th 2:10-3, and a third hour to be arranged. V3106y, Professor Ludwig. Th 2:10-5.

**Greek-Latin 61, 62. Comparative Readings in Greek and Latin Literature. [9]**

Greek and Roman writers examined and compared through a study of

selected genres. Students proficient in only one language may read authors of the other language in translation. Oral reports, short paper, final examination. Open to juniors and seniors with permission of the instructor. Autumn Term: epic, historiography, oratory. Professor Lenaghan. Th 2:10-4, and a third hour to be arranged. Spring Term: didactic poetry, lyric, drama. Professor Bacon. Tu 2:10-4, and a third hour to be arranged.

### Graduate Courses

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

### Modern Greek Language and Literature

- 1-2. **Elementary Full-Year Course.** [13]  
Course 1: basic grammar and syntax; correct pronunciation and limited aural comprehension. Course 2: reading with dictionary of simple texts (e.g. P. Solomos, *He hemera tes Lampres*); use of more sophisticated grammar and syntax in writing, reading, and speaking; comprehension of Greek spoken at a moderate rate of speed and some fluency on simple topics. Dr. Christides. Tu Th 4:10-5:25.
3. **Modern Greek Literature.** [9]  
Representative prose and verse texts from the 18th century to the present (e.g. G. Soures, *Poimata*; K. Ouranes, *Poimata*; E. Venezes, *Aigaio*). Comprehension of spoken Greek of greater syntactical and idiomatic complexity, and fluency on simple topics. Writing within the framework of the essentials of grammar and limited vocabulary. Dr. Christides. Tu Th 2:30-4.
4. **Modern Greek Literature.** [9]  
Reading of selected literary texts (e.g. epic Akritic folksongs; poems of K. P. Cavafy; N. Kazantzakis, *Asketike*), and discussion of subjects derived from them. Writing of Greek prose using a more sophisticated knowledge of grammar and wider range of vocabulary and idiom. Dr. Christides. Tu Th 2:30-4.

<i>Professors</i>	Annette K. Baxter, <sup>1</sup> Patricia Albjerg Graham, <sup>2</sup> Stephen E. Koss, <sup>2</sup> Basil Rauch, Chilton Williamson (Chairman; 419 Lehman), George Woodbridge
<i>Associate Professor</i>	Suzanne F. Wemple
<i>Assistant Professors</i>	Ann Fagan, Daniel Field, <sup>2</sup> Robert McCaughey <sup>2</sup>
<i>Lecturers</i>	Patricia H. Labalme, Sister Mary Elizabeth, Robert Skidelsky, Judith C. Zacek
<i>Instructors</i>	John W. Chambers, Jr., Toni Thalenberg
Officers of Columbia University offering courses listed below:	
<i>Professors</i>	J. M. W. Bean, Istvan Deak, D. M. Dunlop, John A. Garraty, Nina G. Garsoian, Henry F. Graff, Tibor Halasi-Kun, Nathan L. Huggins, Graham W. Irwin, Herbert S. Klein, Hollis R. Lynch, Eric L. McKittrick, Richard B. Morris, John H. Mundy, Robert O. Paxton, Marc Raeff, Eugene F. Rice, David J. Rothman, James P. Shenton, Jacob W. Smit, Morton Smith, Fritz Stern, <sup>2</sup> Alden T. Vaughan, Ehsan Yar-Shater
<i>Visiting Professor</i>	Ismar Schorsch
<i>Associate Professors</i>	Eric Foner, <sup>2</sup> Harold Fruchtbaum, William V. Harris, Kenneth Jackson, Christoph M. Kimmich, William R. Roff, Isser Woloch
<i>Adjunct Associate Professor</i>	Arthur Hertzberg
<i>Visiting Associate Professor</i>	Naomi Cohen
<i>Assistant Professors</i>	Sheila Biddle, Leonard Gordon, Andrzej Kaminski, Daniel Leab, Vojtech Mastny, Curtis Noel, <sup>2</sup> Walter Ofonagoro, Nunzio Pernicone, John D. Schmidt, Robert Somerville, Karen Spalding, Jerome Sternstein, Marcia Wright
<i>Instructor</i>	Geoffrey Field

<sup>1</sup> Absent on leave, Spring Term.

<sup>2</sup> Absent on leave, 1972-73.

History, as knowledge of the past, touches all aspects of human experience. Historians' accounts of the past form a branch of literature in which factual statements can be verified in primary sources. History should be studied to improve understanding of man in society — his failures and his achievements — and to acquire a sense of the relevance of the past to the present.

Students who intend to major in history are urged to consult an adviser in the department at the beginning of the sophomore year in order to plan their academic programs for the remaining three years in college.

The requirements for a major in history are a minimum of eleven courses distributed as follows:



1. At least six courses in an area of concentration. Two of the six courses must be the senior seminar in which the student will write a senior essay. While history majors usually concentrate on European or American history, they may, upon approval of the chairman, concentrate in any field of particular interest, such as ancient, medieval, Jewish, Oriental, African, cultural, or urban history.
2. At least three history courses outside the field of concentration.
3. At least two colloquia, one of which may be an Introductory Seminar.

Note: Two courses of the eleven may be taken in other departments provided that such courses are closely related to the student's field of concentration, and provided that she obtains the written permission of her major adviser.

No special permission is necessary for Barnard College students to register for lecture courses listed in this catalogue. Full course descriptions of Columbia College courses will be found in the Columbia College catalogue. Written permission of the instructor is required for those wishing admittance to all colloquia.

Columbia College students may not register for Barnard Introductory or Senior Seminars.

Certain graduate courses, "G" courses, given at Columbia University are open to qualified majors with the consent of the Chairman of the Barnard Department and of the instructor. A description of these courses will be found in the Bulletin of the Graduate School of Arts and Sciences.



**Lectures    Ancient, Medieval and Modern European History**

- W1001x-W1002y. **The Beginning of History and the Bronze Age.**  
Professor Schmidt. M W 7:10-8:30.
- W1005x-W1006y. **1200 B.C. to 640 A.D.** Professor Smith. Tu Th 6:30-7:50.
- W4006x-W4007y. **Introduction to the Study of Ancient Egypt.**  
Professor Schmidt. M 10-11:50.
- W4010y. **Roman Imperialism.** Professor Harris. W 4:10-6.
- W4660y. **Topics in the Social History of Medicine and Health Care.**  
Professor Fruchtbaum. W 11-12:50.
3. **The Early Middle Ages: from 300 to 1050.** [7]  
The fusion of Graeco-Roman, Judeo-Christian, and Germanic traditions, and the emergence of Europe as a cultural unit.  
Professor Wemple. Tu Th 10:35-11:50.
4. **The High Middle Ages: from 1050 to 1450.** [7]  
The social environment, political institutions, church history, thought and science, from the Gregorian Revolution to the Renaissance.  
Professor Wemple. Tu Th 10:35-11:50.
- [5] **The Roots of the Modern World: Western Europe. 1230-1494.**  
Professor Wemple. Not given in 1972-73.]
- W4293x-W4294y. **English Constitutional History.**  
Prerequisite: junior standing or permission of the instructor.  
Professor Bean. Tu Th 11.
- W4263x-W4264y. **Medieval Church History.** Professor Somerville. Tu Th 10.
- W4203y. **The Medieval Town.** Professor Mundy. W 6:10-8.
- History- **Petrarch's World.**  
Italian V3199x. A literary analysis of Petrarch's ideas as taken from *Secretum*, *De Viris Illustribus*, *De Vita Solitaria*, *De Ignorantia*, and the *Letters* (in the English text), presented against the intellectual, political, and social background of his times. Selected themes of the *Canzoniere* will be examined in the proper historical perspective. Professors Lorch and Wemple. Tu 3:30-5:30.
- W4453x-W4454y. **Byzantine History, 330-1453.** Professor Garsoian. W 2:10-4.
11. **Main Currents of the Modern European World: Renaissance to the French Revolution.** [5]  
The forces — cultural, social, political, economic — which established modern Europe and brought it into contact with the rest of the world. Professor Woodbridge. M W F 2:10.
12. **Main Currents of the Modern European World: Waterloo to Today.** [5]  
Nineteenth-century industrial revolutions, romanticism, liberalism, nationalism, socialism, and imperialism; and twentieth-century wars, revolutions, dictatorships, and aspirations. Professor Woodbridge. M W F 2:10.
13. **The Italian Renaissance** [3]  
The development of city-states, ideals of education, statecraft, the arts, the courtly tradition, and philosophical pursuits in Italy from 1400 to 1543. Dr. Labalme. M W 11-12:15.

- [14. **The Reformation in Europe in the 16th Century.**  
Dr. Labalme. Not given in 1972-73.]
- [15. **The History of Venice from the 13th to the 18th Centuries.**  
Dr. Labalme. Not given in 1972-73.]
- W3201x. **The Foundations of Modern Europe, 1450-1559.**  
Professor Rice. M W F 10.
- W3202y. **Europe in the Age of Religious Wars, 1560-1660.**  
Professor Smit. M W F 10.
17. **An Age of Conflict: Europe from 1815 to 1870.** [3]  
The legacy of the French Revolution and the Napoleonic episode; the struggle for constitutional government and for national unity and independence. Professor Woodbridge. M W F 11.
18. **The Struggle for Mastery: Europe from 1870 to 1914.** [3]  
The period of German leadership. The individual states of Europe and their relations. Imperialism and power alignments. The origins of the First World War. Professor Woodbridge. M W F 11.
- W4112y. **History and Historiography.** Professor Smit. W 2:10-4.
- [21. **England Under the Tudors and Stuarts: 1485 to 1714.**  
Professor Koss. Not given in 1972-73.]
22. **Modern Britain: 1714 to Today.** [9]  
The transformation from squirearchy to meritocracy, with an emphasis on the rise of industrialism, its effects on Britain's domestic and international situations, and the development of the welfare state. Mr. Skidelsky. Tu Th 2:10-3:25.
- W4529y. **History of West European Jewry from the French Revolution to the First World War.** Professor Schorsch. W 10-11:50.
- W4534x. **Political, Social, and Intellectual History of the Jews in the Seventeenth and Eighteenth Centuries.**  
Professor Hertzberg. Th 10-11:50.
25. **The Establishment and Downfall of the French Monarchy: 1515-1789.** [2]  
The cultural, intellectual, political, social, and economic development that brought into existence the monarchy of Louis XIV and led to its collapse. Professor Woodbridge. M W F 10.
26. **France in Turmoil: 1789 to Today.** [2]  
The cultural, intellectual, political, social, and economic developments that have kept France in turmoil from the French Revolution to Charles de Gaulle. Professor Woodbridge. M W F 10.
- W4154x. **France, 1848-1914.** Professor Paxton. M 10-11:50.
- W4157y. **European Lefts Since 1830.** Professor Paxton. M 10-11:50.
- W3205x-W3206y. **The Political Culture of Europe Since 1870.**  
Professor Mastny. Tu Th 2:10-3:25.
- W4183x-W4184y. **Germany Since 1815.** Professor Kimmich. Tu Th 11-12:15.
19. **European Diplomacy: 1914-1939.** [7]  
The origins and impact of the First World War; the "new diplomacy" and the peace settlements; the emergence of new political systems;



attempts to attain stability in the twenties; the collapse of the thirties. Professor Fagan. Tu Th 10:35-11:50.

20. **The Second World War and the Recovery of Europe: 1939 to Today.** [7]

The Second World War and its legacy; the United Nations; rival groups and the Cold War; the new place of Europe in the world. Professor Fagan. Tu Th 10:35-11:50.

27. **History of Russia from the Time of Troubles to the Era of Reforms.** [4]

Political, economic, and social history from the beginning of the seventeenth century to the middle of the nineteenth century. Mrs. Zacek. W 1:10-3:25.

28. **History of Russia from the Era of Reforms to the Death of Stalin.** [4]

Political, economic, and social history from the middle of the nineteenth century to the middle of the twentieth century, with special emphasis on the revolutions of 1917. Mrs. Zacek. W 1:10-3:25.

- [29. **The Culture of Pre-Petrine Russia.**

Professor D. Field. Not given in 1972-73.]

- [30. **Russian Radicalism and Its Antagonists.**

Professor D. Field. Not given in 1972-73.]

- W4328y. **The British Empire and Commonwealth, from 1783 to the Present.** Professor Williamson. M W 11.

- [45. **The Life and Lifetime of Sir Winston Churchill.**

Professor Koss. Not given in 1972-73.]

- W4159x-W4160y. **European Intellectual History, 1800-1930.**

Professor G. Field. Tu Th 10-11:15.

- W4429x. **Introduction to the History of East Central Europe.**

Professor Kaminski. W 2:10-4.

- W4442y. **History of Hungary from 1526 to the Present.**

No language requirement. Professor Deak. Tu 4:10-6.

- W4425x-W4426y. **History of Poland, Lithuania, and Ukraine, 1569-1945.**

Professor Kaminski. F 10-11:50.

### **Colloquia Ancient, Medieval, and Modern European History**

- W3579x-W3580y. **Greek and Roman Historiography.**

W3579: Herodotus, Thucydides, the Alexander-historians. W3580: Polybius, Sallust, Caesar, Livy, Tacitus, the *Historia Augusta*, Roman theories of decline. Professor Harris. M 6:10-8.

- 7y. **Revival and Survival of Rome.** [0]

The adaptation and transformation of the Roman cultural heritage studied in the works of Augustine, Boethius, Cassiodorus, Alcuin, John of Salisbury, Dante, Pierre Dubois, Bartolus, Petrarch, Valla, Machiavelli. Professor Wemple. Th 3:35-5:25.

- W3777x. **Medieval Social History.**

Readings in translations concerning social classes, social order, and social and political theory and manners from the twelfth through the fifteenth century. Professor Mundy. W 4:10-6.

- [6. **The History of Women in the Late Roman Empire and the Middle Ages.** Professor Wemple. Not given in 1972-73.]
16. **The Renaissance in Northern Europe and Spain.** [0]  
 Selected topics in sixteenth century intellectual history: native traditions and Italian influence; classical concerns and religious reform; social commentary and political analysis; science and the mathematical universe. Works by Erasmus, More, Montaigne, Copernicus, and others will be examined in the context of their time. Dr. Labalme. W 1:10-3.
- W3781x. **The Reformation and its Aftermath.**  
 The political, social, and economic consequences of the Reformation; changes in the institutions of government and the structure of society in Western Europe in the sixteenth and seventeenth centuries. Professor Smit. W 2:10-4.
- C3825x. **Religion and Social Change in England, 1600-1800.**  
 Religion and the rise of capitalism: Tawney, Weber, Christopher Hill, and the debate on the "Puritan Revolution." Religion and political and social radicalism: the Levellers and the Diggers. Religion and the working class: Methodism, the opiate of the people or the instrument of moral and spiritual regeneration? Professor Biddle. Th 2:10-4.
- C3858y. **Eastern Europe between Serfdom and Revolution (sixteenth-nineteenth centuries).**  
 Readings, discussions, and reports on selected topics of East European — especially Russian — institutional, cultural, and intellectual history from the end of the Middle Ages to the eve of the formation of contemporary industrialized states. Professor Raeff. M 11-12:50.
- C3860y. **Problems in the Politics of Racism in Europe, 1800-1930.**  
 European racism in the nineteenth century with emphasis upon the interconnection of racial attitudes and politics primarily in England, France, and Germany. Among the topics are German anti-Semitism, English attitudes towards the Irish, Imperialism and race theory. Professor G. Field. W 4:10-6.
- [48. **Modern Imperialism: Myth and Reality.**  
 Professor Williamson. Not given in 1972-73.]
- [31. **Serfdom in Russia and Slavery in the United States.**  
 Professor D. Field. Not given in 1972-73.]
- W3862y. **Political Change and Revolution in Europe, 1848-1914.**  
 Analyses of European political developments and revolutionary challenges. Topics include: the revolutions of 1848; unification of Italy and Germany; revolutionary Socialism and the First International; Franco-Prussian War; Paris Commune; Liberalism; Bismarck and *Machtpolitik*; Imperialism; totalitarian Nationalism; the Action Française; Second International; Russian Revolution of 1905. Professor Pernicone. Tu 11-12:50.
- W3801x. **Europe between the Congress of Vienna and the Crimean War.**  
 Discussion of selected topics on the political and social development of Europe from 1815 to 1856. Professor Deak. W 10-11:50.

- W3802y. European Diplomacy from the Crimean War to Versailles, 1853-1919.**  
Readings and discussions of the main problems of research and historiography. Special emphasis upon the origins of World War I. Professor Mastny. M 4:10-6.
- 44x. Origins and Rise of Fascism. [0]**  
The varieties of fascist ideology, parties and regimes in Europe between the World Wars. Professor Fagan. Tu 4:10-6.
- 50. Britain between the Wars. [0]**  
The legacies — social, economic, and political — of the Great War: the collapse of Liberalism; Baldwin and the pursuit of normalcy; the great slump and political inertia; the British Union of Fascists; appeasers and anti-appeasers. Mr. Skidelsky. Th 4:10-6.
- W3971x. History of Anarchist Ideas and Movements.**  
Readings and research on anarchist thought and practice in the nineteenth and twentieth centuries. Special attention to the theories of Proudhon, Bakunin, Kropotkin, Malatesta and Sorel. Comparative study of the activist movements in France, Italy, Spain, Russia and the United States, covering the period from the First International to the Spanish Civil War. Professor Pernicone. Tu 11-12:50.
- C3853x. Fascism.**  
An examination of Fascist movements, mostly in Europe, since about 1900. Emphasis on the preconditions for mass movements of the right, ways in which they attained power, and the uses to which that power was devoted. While a reading knowledge of a modern European language would be helpful, it is not a prerequisite. Professor Paxton. Tu 4:10-6.
- [46x. Europe in the Age of Tyrannies: 1914-1945.**  
Professor Koss. Not given in 1972-73.]
- [47. Towards Munich and War: British Foreign Policy in the Thirties.**  
Professor Fagan. Not given in 1972-73.]
- [33. The Great Historians.**  
Professors Wemple and Koss. Not given in 1972-73.]
- [48. Modern Imperialism: Myth and Reality.**  
Professor Williamson. Not given in 1972-73.]

## **Lectures United States History**

- W1109x. Main Currents in American History, 1492-1865.**  
Professor Vaughan. Tu Th 6:10-7:25.
- W1110y. Main Currents in American History Since 1865.**  
Professor Sternstein. Tu Th 6:10-7:25.
- 51. Survey of American Civilization to the Civil War. [2]**  
The major theological and organizational concerns of seventeenth-century English colonists; the political and ideological process of defining an American; the social and economic forces that helped shape a distinctive identity; the inherent pressures that culminated in the nation's violent disruption in 1861. Mr. Chambers. M W F 10.



52. **Survey of American Civilization Since the Civil War.** [2]  
The major intellectual and social accommodations made by Americans to industrialization and urbanization; patterns of political and economic thought from Reconstruction to the New Deal; selected topics on post-World War Two developments. Mr. Chambers. M W F 10.
- [53. **American Colonial History.**  
Professor Williamson. Not given in 1972-73.]
- [54. **American Revolutionary History.**  
Professor Williamson. Not given in 1972-73.]
- W4661x. **Social and Economic Foundations of the American Nation, 1600-1754.** Professor Morris. M W 11.
- W4665y. **The Era of the American Revolution, 1754-1783.**  
Professor Morris. M W 11.
55. **From Federal Constitution to Jacksonian Democracy.** [7]  
An intensive study of major themes: economic, political and cultural. Professor Williamson. Tu Th 10:35-11:50.
56. **Sectionalism, Civil War, and Reconstruction.** [7]  
The treatment of these major subjects will be as much historiographical as historical. Professor Williamson. Tu Th 10:35-11:50.
- W4639x. **Political and Social History of the U.S., 1828-1860.**  
Professor McKittrick. F 9-10:50.
- W4640y. **Political and Social History of the U.S., 1860-1877.**  
Professor McKittrick. F 9-10:50.
- W4709x. **The United States, 1877-1898.** Professor Sternstein. M W 1:10-2:25.
- W4741x. **The Great Depression, 1929-1939.** Professor Garraty. Tu 10-11:50.
- W4680y. **American History, from the New Era (the 1920's) to the Great Society.** Professor Leab. Tu Th 11-12:15.
- [72. **American Urban History.**  
Professor McCaughey. Not given in 1972-73.]
- W4673y. **American Urban History.** Professor Jackson. M W 9:30-10:45.
- [84. **American Intellectual History: 1865-1918.**  
Professor McCaughey. Not given in 1972-73.]
- W4675x-W4676y. **Ethnic and Racial Minorities in American History.**  
Professor Shenton. Tu Th 2:10-3:25.
- W4131x-W4132y. **American Social History, the Colonial Period to the Present.**  
Professor Rothman. Tu Th 1:10-2.
- W4515x. **Jews in the United States from Colonial Times to the Present.**  
Professor Cohen. Tu 2:10-4.
69. **War and Reform in Industrial America: 1898-1940.** [3]  
Emergence of urban, industrial America and subsequent changes in attitudes, social order and foreign policy. Examination of corporate giantism, mass immigration, urban ghettos, labor unions and reform movements, and the impact of war and depression, as well as the political responses to these developments. Mr. Chambers. M W F 11.

**70. Expanding America: 1914-1971. [3]**

Economic, political, and military growth at home and abroad. Emergence of the United States as an active world power during World War II, the Cold War, and the Korean, Vietnam conflicts. The development of affluent society, multi-national associations and the military-industrial complex; continuation of the New Deal and challenges for extension of political and economic equality and protection of the environment. Mr. Chambers. M W F 11.

**[57. Origins of Modern America: from Reconstruction to the First World War. Professor McCaughey. Not given in 1972-73.]****[58. Radicalism, Reform, and Reaction in Modern America: 1913 to Today. Professor Rauch. Not given in 1972-73.]**

**W4701x-W4702y. Afro-American History.** Professor Huggins. Tu Th 4:10-5:25.

**W4649x-W4650y. Science and Technology in America.**

Either term may be taken separately. Professor Fruchtbaum. Tu Th 11-12:15.

**63y. Problems in the Teaching of History. [17]**

The selection and organization of content for junior and senior high school history courses; use of primary sources, secondary readings, and other relevant materials; problems of evaluation. Primarily for students in the Education Program; others by written permission of the instructor. Sister Mary Elizabeth. M 4:10-6.

**64. (Religion 64.) The History of Religion in America. [6]**

Religious thought and institutions from colonial times to the present; their influence on American political and social history through the work of representative individuals. Professor Snook. Tu Th 9:10-10:25.

**65. History of Education in the United States. [5]**

The development of American education in the context of social and intellectual history. Mrs. Thalenberg. M 2:10-4.

**W4697x-W4698y. Main Directions in the Foreign Relations of the United States.** Professor Graff. W 2:10-4.

**[59. The Classical Age of American Diplomacy: 1775-1823. Professor Rauch. Not given in 1972-73.]****[60. American Diplomacy and Power: 1823 to Today. Professor Rauch. Not given in 1972-73.]****Colloquia United States History****W3779y. Colonial America.**

Selected topics in early American history including motives for English colonization, Puritanism and other religious phenomena, economic growth, political and social institutions, and the emergence of American slavery. Professor Vaughan. Tu 2:10-4.

**[80. Anglo-American Perceptions.**

Professors Koss and McCaughey. Not given in 1972-73]

**81. History of Women in America to 1890. [0]**

An examination of important historical and literary sources for the study of American women from colonial times to 1890. Professor Baxter. Tu 2:10-4.

- [82. **History of Women in America since 1890.**  
Professor Baxter. Not given in 1972-73.]
- C3935x. **Black Urban America.**  
An historical examination of all major aspects of Black life in the inner city, 1870 to the present. Professor Lynch. Th 4:10-6.
- [74. **Critics of Modern America: 1865 to Today.**  
Professor Baxter. Not given in 1972-73.]
- W3895x-W3896y. **United States History from Reconstruction to the Great Depression.**  
Selected topics including the political system, the relationship between business and politics, American expansionism, the reform impulse, the 1920's, the Wilson and Roosevelt administrations. Professor Sternstein. M 2:10-4.
75. **Franklin D. Roosevelt and the New Deal.** [0]  
The domestic policies of President F. D. Roosevelt considered as the crucial stage in the formation of the modern American state. Professor Rauch. W 2:10-4.
76. **Franklin D. Roosevelt and Foreign Affairs.** [0]  
The foreign policies of President F. D. Roosevelt considered as the crucial stage in the formation of America's position in the world today. Professor Rauch. W 2:10-4.
- W3898y. **Twentieth-century American History; the 1950's.**  
Readings and research on social, economic, and political developments in the United States from the election of Eisenhower to the New Frontier. Prerequisite: W1109 and W1110, or the equivalent, and permission of the instructor. Professor Leab. W 2:10-4.
- W3209x. **Latin Americans in the United States.**  
Problems in the history of Latin American migration to the United States, including economic and political relationships between the United States and Latin America, systems of race and class, the experience of Latin Americans in the United States. Professor Spalding. Th 2:10-4.
61. **American Historiography.** [0]  
The art and craft of American historians from Cotton Mather to the New Left historians. Professor Williamson. Tu 3:35-5:25.
67. **United States Relations with the Far East, 1785-1953.** [0]  
Early American contacts with Asian civilizations; Perry's opening of Japan; traders, missionaries and Marines in China; the strategic way-stations of Hawaii, Samoa, Guam, Midway, and the Philippines; the "Open-Door" in China; rivalry and war with Japan; the "special relations" with China; the Korean War. Professor Rauch. Th 10-11:50.
- [71. **American Colleges in Crisis.**  
Professor McCaughey. Not given in 1972-73.]
78. **American Wartime Dissent, 1775-1972.** [0]  
Relationship between government and groups which dissented from official war aims in various American wars from 1775 to 1972. Pacifists, opponents of specific wars, and those favoring the cause of the other side, together with groups urging expansion of war aims, and their interaction with authorities. Mr. Chambers. W 2:10-3:50.



**Lectures Latin American and Non-Western History****Oriental****Civilizations**

- V3355x-V3356y.** Introduction to the History and Culture of Oriental Societies.  
For complete entry see Oriental Studies.
- W4825x-W4826y.** History of Modern India and Pakistan.  
Professor Gordon. W 10-11:50.
- W4851x.** The Modern History of Southeast Asia. Professor Roff. Th 2:10-4.
- W4415x-W4416y.** History of the Ottoman Turks. Professor Halasi-Kun. W 4:10-6.
- W4469y.** Persian Political, Social, and Cultural History in Modern Times.  
Professor Yar-Shater. M 5:10-7.
- W4463x.** History of the Caliphate. Professor Dunlop. M 10-11:50.
- W4471x.** History of the Arabs, 1800-1914.  
Prerequisite: Permission of the instructor. Professor Dunlop.  
Th 9-10:50.
- W4503x-W4504y.** Armenian History and Civilization, II.  
Professor Garsoian. Th 2:10-4.
- W4779x-W4780y.** History of Latin American Civilization.  
W4779x, Professor Klein. W4780y, Professor Spalding. Tu Th 11.
- Afro-American**
- Civilization**
- W3001x-W3002y.** Introduction to the History and Culture of the Black Man in  
Africa and America.  
W3001x, Professor Irwin. Tu Th 11-12:15. W3002y, Professor Lynch.  
Tu Th 1:10-2:15.
- W3127x-W3128y.** History of Africa. Professor Ofonagoro. M W 11-12:15.
- W4909x-W4910y.** History of East and Central Africa. Professor Wright. Th 2:10-4.
- W4913x-W4914y.** History of West Africa. Prerequisite: W3127x-W3128y.  
Professor Irwin. Th 2:10-4.
- W4915x-W4916y.** Economic History of Africa. Professor Ofonagoro. W 4:10-6.

**Colloquia Latin American and Non-Western History****Oriental****Studies V3507x.****Western Imperialism and Asian Nationalism.**

For complete entry see Oriental Studies.

**Oriental****Studies V3508y.****Modernization of China and Japan.**

For complete entry see Oriental Studies.

**Seminars Introductory and Senior**

89.

**Introductory Seminars.**

[I. Debates among Historians.

Professor Fagan. Not given in 1972-73.]

90.

**Introductory Seminars.****I. History and Psychoanalysis.**

A study of the problems involved in applying concepts of depth

[0]

psychology to historical interpretation. Primarily for freshmen and sophomores. Admission by written permission of the instructor. Professor Fagan. Tu 4:10-6.

**91-92. Senior Seminars in European Civilization. [0]**

Students will conduct individual research, in consultation with the instructor, on subjects in European thought and society of particular interest to themselves. The results of each project will be presented in seminar discussion in the form of the Senior Essay. Open to senior majors; others by written permission of the instructor. Section 1 Professor Wemple. W 4:10-6. Section 2 Professor Fagan. Th 4:10-6.

**93-94. Senior Seminar in American Civilization. [0]**

Individual research on diverse aspects of American history and presentation of results in seminar discussion in the form of the Senior Essay. Open to senior majors; others by written permission of the instructor. Professor Rauch. Th 4:10-6.



*Professor* Maristella De Panizza Lorch (Chairman for Barnard College; 206 Milbank)

Officers of Columbia University offering courses listed below:

*Professors* John C. Nelson, Olga Ragusa, Luciano Rebay

*Instructors* Jon Cherubini, Pellegrino D'Acierno, Maria Grazia DiPaolo, Ida Stellio

A major in Italian is expected to attain (a) sufficient knowledge of the language to enable her to read, write and speak it, (b) a fundamental acquaintance with Italian literature, (c) ability to understand and interpret literary texts in Italian.

**Courses:** A minimum of ten courses, exclusive of language courses, to be planned as early as possible in consultation with the department; Course V3991x-V3992y.

**Allied subjects:** In consultation with their major adviser students should select courses in other languages and literatures, music, art history, philosophy, and religion.

The major examination consists of four hours of written work and an oral examination.

**Foreign Language Requirement for the Degrees:** All new students who intend to satisfy the foreign language requirement in Italian must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken Italian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing a full-year literature course, given in Italian, or Course V3441x with a minimum grade of B+.

**Casa Italiana:** The Casa Italiana, located on Amsterdam Avenue at 117th Street, is open to all students interested in Italian culture and literature. A program of films, lectures, concerts, plays, poetry recitations, and informal gatherings is organized to meet the students' needs.

## Language Courses

### V1101x-V1102y. Elementary Full-Year Course.

An integral course for beginners with intensive oral-aural drill. Reading, translation, conversation. May not be taken simultaneously with elementary Spanish. No credit is given for Course V1101x until Course V1102y has been completed. Work in the language laboratory for one hour weekly is optional. Section I Miss Stellio. M Tu W Th 9. Section II Instructor to be announced. M W 12 and Tu Th 11.



**V1201x-V1202y. Intermediate Course.**

A review of the essentials of grammar; intensive and extensive reading, particularly from contemporary authors; translation, composition, and practice in conversation. Prerequisite: Course V1101x-V1102y or the equivalent. Instructor to be announced. M Tu W F 10.

**V1301x-V1302y. Comprehensive Elementary and Intermediate Course.**

For linguistically gifted students who wish to acquire by intensive study the reading skill necessary to interpret Italian literary texts. Prerequisite: Permission of the instructor. Section I M W F 11-12:15. Instructor to be announced. Section II M W F 4:10-5:25. Mr. Cherubini.

With the permission of the chairman of the department, this course may be applied toward the fulfillment of the language requirement, provided it is followed by a one-year course in Italian literature.

**V3113x-V3114y. Introduction to the Reading and Analysis of Italian Literature.**

Open primarily to graduate students in other departments as a cognate course to their field of specialization. Qualified juniors and seniors may be admitted with permission of the instructor. A previous knowledge of Italian is not required.

V3113x. The basic structure of the language, with emphasis on building vocabulary through progressively difficult readings.

V3114y. Reading and analysis of selected classics of Italian literature by such authors as Dante, Petrarca, Boccaccio, Machiavelli, Manzoni, Verga, and Pirandello. Mr. Cherubini. Tu Th 4:10-5:25.

**Literature  
Courses in Italian**

For nonmajors, courses marked thus § will count toward the general college requirement. All courses are conducted in Italian.

**§V3335x-V3336y. Italian Written and Oral Style.**

Written and oral self-expression in Italian; brief papers, translations, and oral reports on a variety of topics; grammar review. Prerequisite: Italian V1201-V1202 or the equivalent. Miss DiPaolo. M W 4:10-5:25.

**§V3341x-V3342y. Masterpieces in Italian Literature.**

Analysis of selected masterworks; oral and written reports. Prerequisite: Italian V1201-V1202 or the equivalent. Autumn Term, Professor Lorch. Spring Term, Professor Rebay. W 2:10-4.

**§V3993x-V3994y. Seminar in Italian Literature.**

Guidance in research and writing of a critical essay. Required of majors. Open to other qualified students with permission of the Chairman. Professors Lorch, Nelson, Ragusa and Rebay. Hours to be arranged.

**Courses Given  
in English**

Majors are required to attend an additional seminar hour conducted in Italian in those courses so indicated below.

**[V1122y. Studies in the Italian Renaissance.**

Professor Lorch. Not given in 1972-73.]

**[V1134y. Studies in Medieval Romance Literature.**

Professor Nelson. Not given in 1972-73.]

**[History- Dante's World.**

Italian W3197x. Professors Lorch and Wemple. Not given in 1972-73.]

**V3198y. Boccaccio.**

Analysis of the *Filostrato*, *Fiametta*, the *Decameron*, and selections from other works by Boccaccio. Readers of Italian will meet with the instructor for a third hour weekly devoted to analysis of the original texts. Professor Nelson. Tu 3:30-5:30.

**History-  
Italian V3199x.****Petrarch's World.**

A literary analysis of Petrarch's ideas as taken from *Secretum*, *De Viris Illustribus*, *De Vita Solitaria*, *De Ignorantia*, and the *Letters* (in the English text), presented against the intellectual, political, and social background of his times. Selected themes of the *Canzoniere* will be examined in the proper historical perspective. Additional seminar hour to be conducted in Italian for majors. Professors Lorch and Wemple. Tu 3:30-5:30.

**V3449x. Modern Italian Literature.**

The aesthetics of obscurity and reality: a study of Hermeticism, Realism, and Neo-Realism as ideologies and techniques. Pirandello, Ungaretti, Montale, Landolfi, Gadda; Verga, Svevo, Silone, Moravia, Pavese, and Pasolini. Additional seminar hour to be conducted in Italian for majors. Mr. D'Acerno. Tu Th 2:40-3:55.

**[V3450y. Modern Italian Literature.**

Mr. D'Acerno. Not given in 1972-73.]

**V3642y. Studies in Contemporary Italian Arts: Italian Film.**

The Italian film: Rossellini and Neo-Realism; Visconti, Antonioni and Fellini. Complete films are viewed outside of class. Professor Lorch. Tu 2:10-4. Mr. D'Acerno. Seminar hour to be arranged.

**English-  
Italian C3358y.****Artistic Theory in the Renaissance.**

An examination of a selected number of texts (in translation) on artistic theory — Alberti, Vassari, Leonardo, among others — and consideration of their importance to the history of art and literary criticism, with special attention to the critical terminology used. Professor Selig. M W 11-12:30.

**Graduate Courses**

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman of the department. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

*Associate Professor* Joseph L. Malone (Chairman; 412A Milbank Hall)

*Assistant Professor* To be announced

Officers of Columbia University offering courses listed below:

*Professor* William Diver

The purpose of the study of linguistics is to develop understanding of the nature of language. The major is designed to provide the student with a broad appreciation of the fundamental problems of language analysis, some training in the techniques of linguistic research, as well as insight into the interrelations of linguistics with the other social and communicational sciences, the humanities, and philosophy and mathematics.

The student majoring in linguistics must (I) successfully complete Linguistics V1101x, V1102y, V3203x, V3206y, either V3301x or V3303x, and V3901; and (II) satisfy a program of language and related requirements to be worked out on an individual basis with the major adviser.

The student majoring in linguistics is also encouraged to take courses in old forms of language (e.g. English 53, French 31, Greek or Latin 1-2), history or philosophy or psychology of language (e.g. English 90, Philosophy W3177y, Psychology 20), and anthropological linguistics (e.g. Anthropology-Linguistics V3034y).

**V1101x, V1102y. Introduction to Linguistics.**

The nature of language. Characteristics of phonological and grammatical systems and of the lexicon. Evolution of language. Role of linguistics in related disciplines. Modern techniques of linguistic analysis. Linguistics V1101x is prerequisite to Linguistics V1102y. Section I Instructor to be announced. Tu Th 2:10-3:25. Section II Instructor to be announced. Tu Th 11-12:15.

**V3203x. Synchronic Linguistics.**

Varied approaches to problems in synchronic linguistics, selected to emphasize critical points in linguistic theory. Prerequisite: Linguistics V1101x, V1102y. Instructor to be announced. Tu W Th 9-9:50.

**V3206y. Historical Linguistics.**

The principles of both historical and comparative linguistics, with some consideration of the role of philology. Prerequisite: Linguistics V1101x, V1102y. Instructor to be announced. Tu W.Th 9-9:50.

**[V3301x. The Structure of a Language. Not given in 1972-73.]**

**V3303x. Linguistic Analysis.**

Detailed examination of a linguistic problem chosen by the instructor. The Latin subjunctive, its contribution, as a single meaning, to a great variety of messages. Previous knowledge of



Latin is not required. Prerequisite: Linguistics V1101x, V1102y.  
Professor Diver. Hours to be arranged.

V3901x or y.

**Seminar in Linguistics.**

[0]

Supervised research in the student's language of specialization; preparation of a term paper. Prerequisite: the linguistics major, and senior standing. Professor Malone. Tu 10-11:50.

G4401x.

**Introduction to Semitic Linguistics.**

A typological and evolutionary survey of the Semitic languages in the light of linguistic analysis. Prerequisite: permission of the instructor. Professor Malone. Th 10-11:50.



<i>Professor</i>	Patrick X. Gallagher <sup>1</sup> (Chairman; 413 Mathematics)
<i>Assistant Professor</i>	Brian O'Byrne
<i>Instructor</i>	Ralph Grishman

Officers of Columbia University offering courses listed below:  
*Professors* Hyman Bass, Lipman Bers, Samuel Eilenberg, Howard Garland, Ellis Kolchin, Masatake Kuranishi, Edgar R. Lorch, Wilfried Schmid

*Joseph Fels Ritt* William Abikoff, Anastasia Czerniakiewicz, Aroldo G. Kaplan,  
*Assistant Professors* Donald Knutson, Linda P. Rothschild, Peter Shalen, Richard Sharpe, David Tartakoff, John W. Wood

<sup>1</sup> Absent on leave, Spring Term.

Calculus is offered in three sequences, designated A, B, and C.

Calculus A is intended for students who need calculus primarily for its applications. Calculus B is intended to develop a theoretical understanding of the mathematical concepts.

Calculus C is on a mature level and demands creative imagination and an unusual ability to think abstractly.

In the A and B courses, the lectures are supplemented by recitation periods which meet once a week in small groups.

Assignment to recitation sections are made after the first lecture.

Students may transfer from one division of Calculus to another, with the approval of the Columbia departmental representative. This is not a change of program.

An advanced placement score of 4 or 5 earns admission to the freshman section of IIIB, and advanced placement credit equivalent to one course, which is increased to two courses upon successful completion in the freshman year of IC-IIC or IIIB-IVB. A score of 3 earns admission to IIIA or IIB. Students who have had a course in differential calculus (but have not had a thorough grounding in integration) may take IIB.

A major in mathematics: Eight courses (exclusive of 7, 8) are required. These must include the following: Calculus I-IV (in the B or C sequence, if possible); W3161x, W3162y, at least two from among 31, 40, W3040x, W3041y. At least six of the required courses should be completed by the junior year.

Graduate courses and courses in allied fields, such as statistics, physics, applied mathematics, history of science, etc., are often taken. Majors planning graduate study are advised to obtain a reading knowledge of two of the three languages: French, German, Russian.

The major examination, in the senior year, consists of the Undergraduate Record Examination.

7<sup>1</sup>, 8<sup>1</sup>. **Mathematical Analysis.** [2]

Designed to give the student who intends to take only one year of college mathematics as broad a view as possible of the nature of mathematics. Autumn Term: Trigonometry and algebra. Spring Term: Topics in analytic geometry, differential and integral calculus. This course is primarily for those who do not plan to major in mathematics or a physical science. Course 7 is prerequisite to Course 8. Professor Tartakoff. M W F 10.

<sup>1</sup> Courses may not be counted toward a major in mathematics.

**C1101x, C1102y. Calculus IA and IIA.**

Functions. Limits. Derivatives. Examples. Applications (motion, curve tracing, maxima and minima.) Mean value theorem. Integrals. Integration by parts and substitution. Applications (area, volume, length, work, energy). Elementary transcendental functions. Applications (radioactive decay, vibrations). Taylor's theorem with remainder. Prerequisite: trigonometry. Professors Czerniakiewicz, Kolchin, Shalen, and Wood. M W F 11. Recitation sections: Tu or Th, 8 or 12.

**C1103x, C1104y. Calculus IB and IIB.**

The same material as Course IA, IIA, with greater emphasis on the understanding of the mathematical concepts and the logical structure. Professors Gallagher and Tartakoff. M W F 11. Recitation sections: Tu or Th, 8 or 12.

**C1104x, C1203y. Calculus IIB and IIIB.**

Prerequisite: A course in differential calculus. Professor Kuranishi. M W F 11. Recitation sections: Tu or Th, 8 or 12.

**C1107x, C1108y. Calculus IC and IIC.**

The same material as Course IA, IIA. The terminology and style are thoroughly modern. Intended for students who have facility with discussions on an abstract level, or who appear likely to develop such facility early. Admission is by examination, given by the Columbia mathematics department during Freshman Week. Professor Knutson. M W F 11.

**C1201x, C1202y. Calculus IIIA and IVA.**

Vector valued functions. Functions of several variables. Examples. Partial derivatives. Chain rule and the gradient. Multiple integrals. Various coordinates. Line and surface integrals. Vector analysis. Infinite series. Power series. Applications. Prerequisite: Calculus II for IIIA, III for IVA. Professors Garland and Lorch. Tu Th 11-12:15. Recitation sections: M or W, 8 or 12.

**C1203x, C1204y. Calculus IIIB and IVB.**

The same material as Calculus IIIA, IVA, with greater emphasis on the understanding of the mathematical concepts and the logical structure. Prerequisites: Calculus IIB or the equivalent for IIIB, Calculus IIIB for IVB. Section I. Professor Schmid. Tu Th 11-12:15. Recitation sections: M or W, 8 or 12. Section II. Professor O'Byrne. M W F 11. Recitation sections: Tu or Th, 8 or 12 (freshman section).

**C1204x. Calculus IVB.**

Prerequisite: Calculus IIIB. . . . Tu Th 11-12:15. Recitation sections: M or W, 8 or 12.



## C1207x, C1208y. Calculus IIIC and IVC.

The material of Calculus IIIA, IVA, plus additional topics, as time permits. The terminology and style are thoroughly modern. Prerequisites: Calculus IIC for IIIC, Calculus IIIC for IVC. Professor Eilenberg. Tu Th 11-12:15.

## 31. Number Theory. [1]

Congruences, quadratic residues, Gaussian sums. Number-theoretic functions. Distribution of primes. Irrational, algebraic and transcendental numbers. Prerequisite: Calculus II. Professor Bass. M W 9:10-10:25.

## [40. Group Theory. Not given in 1972-73.]

## 65. Introduction to Computer Science

A first course in the design of algorithms and their implementation on a digital computer. The programming language PL/I. The flow-charting and coding of basic algorithms for numerical and non-numerical applications. Mr. Grishman. M W 4:10-5:25 and one workshop hour to be arranged.

## 66. Assembly Language Programming and Data Structures

The architecture of digital computers. Assembly language programming for the IBM System/360. Basic data structures — strings, lists, stacks and trees — and their implementation in assembly language and PL/I. Prerequisite: Mathematics 65 or a knowledge of PL/I. Mr. Grishman. M W 4:10-5:25 and one workshop hour to be arranged.

## W3005x, W3006y. Advanced Calculus for Science Majors.

Completion of the basic calculus sequence with the essential groundwork for applications to physics and engineering. Elements of linear algebra. Power series. Taylor expansions. Chain rule. Change of variables in multiple integrals. Line and surface integrals. Green's and Stokes' theorem. Implicit function theorem. Differentiation of series and integrals. Orthogonal expansions: Fourier series, Legendre polynomials, Bessel functions. Complex analysis: Cauchy-Riemann equations, Cauchy theorem, Residue theorem with applications to contour integrations. Prerequisite: Calculus IV. Professor Sharpe. Tu Th 1:10-2:25.

## W3007x. Complex Variables.

An elementary course in functions of a complex variable. Complex numbers, analytic functions, Cauchy-Riemann equations. Cauchy integral theorem, Taylor and Laurent series, poles and essential singularities, conformal mapping. Professor O'Byrne. M W 1:10-2:25.

## W3010x. Fundamental Concepts of Mathematics.

The groundwork on which almost all modern mathematics rests. Sets, mappings, relations, ordered sets, well-ordering, natural numbers, cardinal numbers, ordinal numbers, choice functions, Zorn's lemma, induction, real and complex numbers. Prerequisite: Calculus IV and at least one 3000 course. Professor Czerniakiewicz. M W 4:10-5:25.

## W3027x (or W3027y). Differential Equations.

Solutions of ordinary differential equations: linear equations with constant coefficients, series solutions at regular and singular points. Boundary value problems. Qualitative theory of nonlinear equations. Selected applications. Prerequisite: Calculus IV or equivalent.

Autumn Term: Professor Kaplan. Tu Th 6:10-7:25. Spring Term: Professor O'Byrne. M W F 10.

**W3028y. Partial Differential Equations.**

Introduction to partial differential equations. First-order equations. Linear second-order equations; separation of variables, solution by series expansions. Boundary value problems. Further topics chosen by the instructor. Prerequisite: Course W3027x or equivalent. Professor Kaplan. Tu Th 6:10-7:25.

**W3040x, W3041y. Introduction to Modern Algebra.**

Introduction to groups, rings, fields, with examples. Polynomials, algebraic number fields, the Galois theory and applications. Prerequisite: Calculus IV or consent of instructor. Professor Knutson. M W 2:40-3:55.

**W3161x, W3162y. Introduction to Modern Analysis.**

The real numbers. Metric spaces. Elements of general topology. Continuous functions. Implicit function theory. Measure and integration. Change of variables in integration. Banach spaces and Hilbert spaces. Bounded operators. Examples and applications. Further topics chosen by the instructor. Prerequisite: Calculus IV or the equivalent. Professor Rothschild. Tu Th 1:10-2:25.

**W3202x  
(or W3202y). Linear Algebra.**

Vector spaces, linear transformations, matrices, quadratic forms. Prerequisite: Calculus II or the equivalent. Autumn Term: . . . Tu Th 6:10-7:25. Spring Term: Professor Sharpe. Tu Th 10, W 12.

**W3375y. Geometric Topology.**

Elementary combinatorial properties of polyhedra. The fundamental group; elementary homology theory and related invariants. Topology of surfaces and their classification. Prerequisite: Calculus IV and W3040 or the equivalent. Professor Sharpe. Tu Th 4:10-5:25.

**W3386x. Differential Geometry.**

Local and global differential geometry of submanifolds of Euclidean 3-space. Frenet formulas for curves. Various types of curvatures for curves and surfaces and their relations. The Gauss-Bonnet theorem. Prerequisite: Calculus IV or equivalent. Professor Abikoff. Tu Th 4:10-5:25.

[W3940x, W3941y. **Seminar in Algebra.** Not given in 1972-73.]

[W3961x, W3962y. **Seminar in Analysis.** Not given in 1972-73.]

**Mathematical  
Statistics G4105x. Probability.**

Fundamentals; random variables and distribution functions in one or more dimensions; the binomial, normal, and Poisson distributions; combinatorial problems; moments and characteristic functions; stochastic convergence and the law of large numbers; addition of random variables and limit theorems; the chi-square, t, and F distributions. Prerequisite: Calculus IV. M W 5:40-6:55.

**Mathematical  
Statistics G4107y. Statistical Inference.**

Principles of statistical decision procedures. Point estimation. Unbiased consistent, efficient, and sufficient estimates. Method of maximum likelihood. Testing hypotheses. Normal, binomial, and Poisson distributions. Prerequisite: G4105. M W 5:40-6:55.

## Graduate Courses

Certain graduate courses given in the University are open to qualified majors with the consent of the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.





<i>Professor</i>	Hubert Doris
<i>Associate Professor</i>	Patricia Carpenter (Chairman; 703 Dodge Hall)
<i>Assistant Professor</i>	Gordana Lazarevich
<i>Lecturer</i>	Walter Sorell
<i>Associate in Music</i>	Daniel Paget
<i>Assistant</i>	Peter Schubert

Officers of Columbia University offering courses listed below:

<i>Professors</i>	Joel Newman, Ernest H. Sanders, Howard Shanet, Vladimir Ussachevsky
<i>Associate Professors</i>	Chou Wen-Chung, Dieter Christensen, Christoph Wolff
<i>Assistant Professors</i>	George Flynn, Walter Hilse, Joel Sachs, Harvey Sollberger, Piero Weiss
<i>Lecturer</i>	Christopher Hatch
<i>Preceptors</i>	Eleanor Cory, Nicolas Roussakis
<i>Assistant</i>	Thomas James
<i>Teaching Staff in</i>	Sheldon Henry, Donald Barra, University Band
<i>Applied Music</i>	Howard Shanet, University Orchestra Daniel Paget, Barnard-Columbia Chorus

A major in music is designed to integrate music as an art and a craft within the framework of the liberal arts.

A student intending to major in music should start with Courses V2100x and V3123x as early as possible. Course 1-2, though a prerequisite for more advanced literature courses, is not required of music majors, since they cover the same type of material in greater depth in the courses already required of them.

In general, major programs are planned to include nine courses of advanced work in literature, history, and theory. Courses V2100-V2101, V2300-V2301, V2303, V2305, V3123, V3124, V3125, V3126, V3179-V3180 and V3373-V3374 are required. (Course V3239x-V3240y is required of students intending to specialize in composition.) Applied music (a maximum of one course) may be counted toward the degree but is not required.

Other fields: A reading knowledge of German, Italian, or French is required. Students planning to do graduate work in musicology, or ethnomusicology, must know at least two foreign languages, including German and French. Courses in art history, history, philosophy, literature, and foreign languages are recommended for their relationship with musical studies, and should be elected after consultation with the department.

Students are advised to consult the Bulletin of the Graduate School of Arts and Sciences for those courses open to seniors and others with advanced training.

At the end of the sophomore year students planning to major in music will be expected to file with the department certificates stating that they have passed an examination in elementary piano. A student found deficient in piano techniques is required to take supplementary piano lessons. If she is unable to pay for such lessons herself, she should consult the Director of Financial Aid. As with other applied music activities, these lessons will carry the equivalent of one quarter academic credit per semester.

Majors must have participated for two years in the chorus, orchestra, choir, concert band, collegium musicum, chamber music, or other musical ensembles by the time they are graduated.

**The Program in the Arts:** Those students contemplating a career in performance or composition should see the announcement on the Program in the Arts, pages 53-55, and should consult with Professor Doris at the earliest possible time.

**Practice rooms:** The department provides practice rooms at a nominal charge. Preference in assigning hours is given in order of application to music majors and those enrolled in courses given by the department. Application for practice time should be made at the Office of Buildings and Grounds, Milbank Hall: during registration and the first week of classes by music majors, and by all others during the week following.

**Library:** Books, scores and records are available at the Barnard College Library. The Columbia University Music Library contains an extensive collection of music materials for reference, research, and circulation. In addition, phonographs with a large collection of recordings are also available for use by students registered in music courses other than Course 1-2.

## Literature and History

### 1-2. An Introduction to Music.

A study of the elements of musical structure designed to form intelligent listening habits, and of the several great epochs of music, with emphasis on their style and structure. No previous knowledge of music is required. This course is not designed for students majoring in music. Professors Doris and Lazarevich, and Mr. Roussakis. Section I M W F 11. [3] Section II M W F 12. [12] Section III M W F 1:10. [4] One hour per week of supervised listening, chosen from the following: W 4:10, Th 3:10, F 2:10.

### [V1004y. Literature of the Pianoforte.

Professor Sachs. Not given in 1972-73.]

- V1005x. The Opera.**  
A rapid survey of the development of opera from Monteverdi to the present. Prerequisite: Course 1-2 or the equivalent. Professor Lazarevich. M W 3:10-5. One hour is a listening hour.
- V1006y. The Symphony.**  
A survey of symphonic style and structure from about 1750 to the present. Prerequisite: Course 1-2 or the equivalent. Professor Sanders. M W 4:10-6. One hour is a listening hour.
- [V1007x. Music of the World's Peoples.**  
Professor Christensen. Not given in 1972-73.]
- V1008y. Twentieth Century Music.**  
A survey of contemporary music from Debussy to the present. Prerequisite: Course 1-2 or the equivalent. Professor Sachs. M W 3:10, F 3:10-5. One hour is a listening hour.
- V1109x, V1110y. History of Dance.**  
A survey of the development, history, aesthetics, and philosophy of dance, with particular reference to drama, opera, ballet, and modern dance. Lectures and demonstrations; interviews with specialists in the field and practice in selected dance movements. Prerequisite: Permission of the instructor. Registration limited to 40 students. Professor Roosevelt and Mr. Sorell. Tu 6:10-8:50.
- V1015x. American Music.**  
A survey of music in America from Colonial times through the 1950's. Attention is given to the interrelationships among folk, "entertainment," and art music. Prerequisite: Course 1-2 or equivalent. Professor Newman. Tu Th 2:10-4. One hour is a listening hour.
- V1019y. Beethoven.**  
Beethoven's principle works examined in the light of his stylistic development. Prerequisite: Course 1-2 or the equivalent. Professor Weiss. Tu Th 2:10-4. One hour is a listening hour.
- V1617x. Electronic Music: Its Evolution and Techniques.**  
A comprehensive survey of electronic music from 1948 to the present, with detailed analysis of compositional techniques and their evolution and application by various groups and individual composers. Technical procedures employed in creating electronic sound materials will also be discussed. Prerequisite: Courses 1-2, V2101 and permission of the instructor. Registration limited to 25 students. Professor Ussachevsky. Tu Th 7:10-8:25.
- [V3021y. Schoenberg.** Professor Carpenter. Not given in 1972-73.]
- [V3042. Aesthetic Disciplines in Music.**  
Professor Carpenter. Not given in 1972-73.]
- V3123x. History I.**  
Western music to the early sixteenth century. Prerequisite: Music V2100 or the equivalent. Section I Professor Sanders. M W 1:10-3. One hour is a listening hour. Section II Professor Newman. Tu Th 5:40-7:30. One hour is a listening hour.
- V3124y. History II.**  
Western music from the early sixteenth to the end of the seventeenth century. Prerequisite: Music V3123 or the equivalent. Section I Professor Sanders. M W 1:10-3. One hour is a listening hour.



Section II Professor Newman. Tu Th 5:40-7:30. One hour is a listening hour.

**V3125x. History III.**

Western music from the end of the seventeenth century to the early nineteenth century. Prerequisite: Music V3124 or permission of the instructor. Section I Professor Weiss. M W 2:10, F 2:10-4. One hour is a listening hour. Section II Professor Wolff. Tu Th 5:40-6:55. One hour is a listening hour.

**V3126y. History IV.**

Western music from the early nineteenth century to the mid-twentieth century. Prerequisite: Music V3125 or permission of the instructor. Section I Professor Doris. M W 3:10, F 3:10-5. Section II Professor Sachs. Tu Th 5:40-7:30. One hour is a listening hour.

**V3179x-V3180y. Seminar. Historical and Analytical Studies in the Literature of Music.**

Required seminar for senior majors to supplement and coordinate previous studies. Prerequisite: three years of the theory sequence, two years of the history sequence, and Music V3373-V3374, or written permission of the instructor. Section I Professor Doris. W 4:10-6. Section II Professor Newman. Th 4:10-6.

## Theory

**V1329x, y. Musicianship.**

The basic elements of music are studied with the aim of developing musicianship. Prerequisite: Placement examinations will be given on Tuesday, September 5, and Thursday, January 18, at 10 a.m. in 710 Dodge. Professors Flynn, Lazarevich, Sachs, and Mr. Roussakis. Tu Th 4:10-5:25.

**V2100x-V2101y. Theory I and II.**

Principles of counterpoint; species counterpoint; triadic harmony. Examination of relevant music is included. Prerequisite: a grade of B in a placement examination given on Tuesday, September 5, at 10 a.m. in 710 Dodge. (The prerequisite may be satisfied with a grade of B in Music V1329.) Section Ia Professor Carpenter; Section Ib Professor Lazarevich; Section Ic Miss Cory; Section Id Mr. Schubert. M W F 1:10. Lab. M W 2:10. Section II Mr. James. M W 5:40-6:55. Lab. M W 7:10.

**V2300x-V2301y. Theory III and IV.**

Contrapuntal practices of the eighteenth century, including double counterpoint, canon, and fugue. Harmonic practices of the later nineteenth and early twentieth centuries. Examination of relevant music will be included. Prerequisite: Music V2101 or equivalent. Section Ia Professor Carpenter; Section Ib Professor Lazarevich; Section Ic Professor Hilse. M W F 10. Section II Mr. Hatch. M W 4:10-5:25.

**V2303x. Theory V.**

Twentieth century musical practices, including investigation of coherence in non-tonal music. Examination of relevant music will be included. Prerequisite: Music V2301 or equivalent. Section I Professor Carpenter. M W F 3:10. Section IIa Professor Chou; Section IIb Professor Sollberger. Tu Th 2:30-4.

**V2305y. Theory VI.**

Analysis. Principles of design, texture, rhythm and the organization

of musical detail, as revealed through a study of compositions selected from several periods of music history. Prerequisite: Music V2303 or equivalent. Section I Professor Carpenter. M W F 3:10. Section II Professor Flynn. Tu Th 2:30-4. Section III Mr. Hatch. M W 4:10-5:25.

**V3239x-V3240y. Composition.**

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano. One course credit is given for the two semesters. Prerequisite: Course V2301 or written permission of the instructor. Instructor to be announced. M 3:10-5.

**V3241x-V3242y. Advanced Composition.**

A continuation of Music V3239x-V3240y. Prerequisite: Course V3239x-V3240y and permission of the instructor. Professor Sollberger. Tu 11-12:50.

**V3373x-V3374y. Orchestration, Conducting, and Score-Reading.**

Lectures and practice in orchestration and score-reading, supplemented by practical demonstrations of instruments. Prerequisite: Course V2101 or the equivalent and written permission of the instructor. Section Ia Professor Shanet; Section Ib Professor Hilse. M W F 11. Section II Professor Sollberger. Tu Th 5:10-6:55.

**Performance  
Activities  
(Applied Music)**

A detailed description of the following activities is given in *A Guide to Barnard*.

Academic credit, granted by petition at end of the semester, amounting to one quarter of a course per semester is given for participation in the following activities, with the exception of Music for an Hour.

Audition and rehearsal schedules for all activities will be posted outside the Columbia departmental office, at least a week before registration.

**University  
Orchestra.**

Professor Shanet. Auditions: During registration week by appointment. Room 703 Dodge. Rehearsals: M 5:30-7:30 on the stage of McMillin Theatre, and M W F 5:30-7:30 in the three weeks preceding each concert.

**Barnard-Columbia  
Chorus.**

Mr. Paget. Auditions: During registration week by appointment. Room 703 Dodge. Rehearsals: Tu Th 6-8 p.m. in Room 405 Milbank Hall.

**University Bands.**

Mr. Barra. Auditions: Concert Band, during registration week and by appointment. Rehearsals: Tu Th 4-6.

**Collegium Musicum.**

This organization acquaints the student with certain neglected and unfamiliar masterpieces of vocal and instrumental music not heard in concerts elsewhere. Music majors are particularly urged to attend the meetings and to participate in performances.

**Music for an Hour.**

This series of informal chamber concerts, held the last Tuesday in every month in the James Room of Barnard Hall, is designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult the department.

**Chamber Music.**

Professor Lazarevich. Groups for informal performance will be formed at the beginning of the year.

<i>Professor</i>	John Meskill <sup>1</sup>
<i>Associate Professor</i>	Barbara Stoler Miller (Chairman; 321B Milbank Hall)
<i>Instructor</i>	Jane L. Price

Officers of Columbia University offering courses listed below:

<i>Professors</i>	Wm. Theodore de Bary, Chih-Tsing Hsia, Burton Watson
<i>Adjunct Professor</i>	Arthur S. Lall
<i>Associate Professor</i>	H. Paul Varley
<i>Adjunct Associate Professor</i>	Philip B. Yampolsky
<i>Assistant Professors</i>	Leonard A. Gordon, David Johnson, Theodore Riccardi, Jr., Jeanette Wakin
<i>Preceptors</i>	Patricia Ebry, George Tanabe, Rodney Taylor, Ronald Toby, Frederick Underwood

<sup>1</sup> Absent on leave, 1972-73.

Oriental Studies aims to provide, by means of the first three courses listed below, an introduction to major aspects of four living Asian civilizations. These courses are designed for any student, whatever her major, who wishes to include knowledge of Asia in her education.

**Foreign Language Requirement for the Degree:** The satisfactory completion of one of the following courses satisfies the requirement in the respective language: Arabic W1122y, Chinese G4006y, Japanese W4006y, Persian W1122y, Sanskrit G6102y, or Turkish W1122y.

Majors in the program will be prepared for further study in graduate school or some other related professional training. They will concentrate on one of the following regions or countries: the Middle East, India, China, or Japan.

## The Middle East.

(a) As a prerequisite, to be completed by the end of the sophomore year, Oriental Civilizations V3001x-V3002y.

(b) Four to six courses of Arabic, Persian, or Turkish; details to be explained by the adviser.

(c) Four additional courses on the Middle East, to be chosen in consultation with the adviser.

(d) One course in supervised readings, to be arranged in consultation with the adviser.

## India, China, or Japan.

(a) As a prerequisite, to be completed by the end of the sophomore year, Oriental Civilizations V3355x-V3356y.

(b) Four to six courses of an appropriate Oriental language; details to be explained by the adviser.

(c) Two courses on India, China, or Japan in one discipline.



(d) Two more courses above the introductory level in the same discipline as chosen under subsection (c), for training in the discipline; to be chosen in consultation with the adviser.

(e) Two courses in senior seminar, or one course in readings and one in senior seminar, or one course in senior seminar and Oriental Humanities V3399x-V3400y.

Majors in the program come under the administration of the Committee on Foreign Area Studies. For admissions procedures and other details, see page 58.

**Oriental  
Civilizations**  
V3355x-V3356y.

**Introduction to the History and Culture of Oriental Societies.**

The more important factors in the life of peoples of India, China, and Japan, and an appraisal of their role in the world today. Autumn Term: The evolution of these civilizations to recent times, emphasizing their characteristic institutions and intellectual traditions. Spring Term: Developments in the nineteenth and twentieth centuries as these societies have confronted the problems of modernization. Fourth hour: Lectures and audio-visual illustrations. Prerequisite: one course in history or permission of the instructor. Professors de Bary, Gordon, Lall, Miller, Riccardi, and Varley, Mrs. Ebry and Mr. Toby. Section I M W F 9. Section II M W F 10. Section III M W F 11. Fourth hour W 12.

**Oriental Humanities**  
V3399x-V3400y.

**Colloquium.**

A selection from the works of Near Eastern, Indian, Chinese, and Japanese authors. This course will be conducted as a colloquium and will be devoted to readings in translation and discussion of major works in the literature, philosophy and religion of several Oriental traditions. The Autumn Term will deal with works from the Near East and India; the Spring Term with readings from China and Japan. Open to juniors and seniors who have completed two courses of literature and one course of philosophy or religion, or have written permission of the instructor. Professors de Bary, Hsia, Johnson, Miller, Wakin, and Yampolsky, and Messrs. Tanabe, Taylor, and Underwood. Section I M 2:10-4. Section II Tu 2:10-4. Section III W 2:10-4. Section IV Th 7:10-9.

**Oriental  
Civilizations**  
V3001x-V3002y.

**Introduction to Islamic Civilization.**

Autumn Term: An examination of Islamic civilization. Its institutional and intellectual characteristics to A.D. 1800. Spring Term: Important factors, such as the impact of the West and nationalism, on the Islamic peoples from 1800 to the present. Professor . . . . . Tu Th 12-1:15.

**[Oriental Studies**  
V3379x.

**Readings in Oriental Studies.**

Professors Meskill and Miller. Not given in 1972-73.]

**Oriental Studies**  
V3402y.

**Indian Literature in Translation.**

The art of the storyteller. Traditional and modern Indian narrative literature will be used as a medium to introduce the student to various aspects of Indian culture. Special emphasis will be given to the forms of myth, folktale, epic, romance, and fable in relation to the development of the novel in India. Open to all except freshmen. Professor Miller. F 11-1 and a third hour of individual conferences.

**Oriental Studies**  
V3501x-V3502y.

**Seminar in Asian Literature.**

Autumn Term: Selected themes of Chinese, Japanese, and Indian poetry. Spring Term: Selected topics in the contemporary literature

of China, Japan, India, and the Near East. Open to juniors and seniors with the permission of Professor Miller. Professors Miller and Watson. F 2:10-4.

<b>Oriental Studies</b> <b>V3507x, V3508y.</b>	<b>Seminar on Comparative Studies in Asian Civilizations.</b> Autumn Term: Concepts of Asia in European and Asian social and historical thought. Spring Term: Studies in the modernization of the traditional societies of China, Japan, and India. Permission of Professor Varley required. Professors Gordon and Varley. W 2:10-4.  Students interested in Oriental Studies may want to consider the following course:
<b>Political Science</b> <b>24.</b>	<b>Asian Politics.</b> Professor Dalton. M W F 10.
<b>Supplementary</b> <b>Courses for the</b> <b>Major</b>	Majors normally choose, with the approval of their advisers, additional courses in Columbia University to complete the major requirements. Listed below are courses frequently appropriate for this purpose. For further information, consult the adviser.
<b>Arabic</b> <b>W1101x-W1102y.</b>	<b>Elementary Arabic.</b> Professor Madina. M 6:40-7:55 p.m. Th 6:10-7:25 p.m.
<b>Chinese</b> <b>C1101x-C1102y.</b>	<b>Elementary Chinese.</b> Mrs. Chang Sobelman and Mrs. Lau. Section I M Tu W Th F 9. Section IIa M Tu W Th F 10. Section IIb M Tu W Th F 10. Section III M Tu W Th F 11.
<b>Chinese</b> <b>C1201x-C1202y.</b>	<b>Intermediate Chinese.</b> Mr. Yeu. M Tu W Th F 10.
<b>Chinese</b> <b>G4005x-G4006y.</b>	<b>Advanced Chinese.</b> Mr. Lo and Miss Pan. Section I M W 11-12:50. Section II M W Th 5:40-7:05.
<b>Chinese</b> <b>G4031x-G4032y.</b>	<b>Chinese Literature.</b> Professors Hsia and Watson. Tu Th 10.
<b>Chinese</b> <b>G4033y.</b>	<b>Contemporary Chinese Literature.</b> Professor Hsia. Tu Th 11.
<b>[Chinese</b> <b>G6027x-G6028y.</b>	<b>Introduction to Chinese Thought.</b> Professor de Bary. Not given in 1972-73.]
<b>Chinese-History</b> <b>G6815x, G6816y.</b>	<b>Introduction to the Civilization of China.</b> Professor Bielenstein. M W 11.
<b>Chinese-History</b> <b>G6825x, G6826y.</b>	<b>History of Modern China.</b> Professor Wilbur. M 2:10-4.
<b>History</b> <b>W4825x-W4826y.</b>	<b>History of Modern India and Pakistan.</b> Professor Gordon. W 10-11:50.
<b>History</b> <b>W4851x-W4852y.</b>	<b>The Modern History of Southeast Asia.</b> Professor Roff. Th 2:10-4.
<b>History-Japanese</b> <b>G6832x.</b>	<b>Early Japan.</b> Professor Morris. Tu Th 11.

History-Japanese G6833y.	Medieval Japan. Professor Varley. M W 1:10.
History-Japanese G6834y.	The Tokugawa Period. Professor Webb. M 2:10-4.
History-Japanese G6839y.	Early Modern Japan. Professor Webb. W 2:10-4.
History-Japanese G6840x.	Japan in the Twentieth Century. Professor Tiedemann. W 2:10-4.
Japanese C1101x-C1102y.	Elementary Japanese. Professor Lange. M Tu W Th F 9.
Japanese C1201x-C1202y.	Intermediate Japanese. Mrs. Ch'en. M Tu W Th F 9.
Japanese W4005x-W4006y.	Advanced Japanese. Professor Shirato and Mrs. Ch'en. Section I M W F 11-12:25. Section II M W F 6:10-7:35.
Japanese G4031x.	Japanese Literature. Professor Keene. Tu Th 10.
Japanese G4032y.	Japanese Literature. Professor . . . . . M W 10.
Japanese G6027-G6028y.	Introduction to Japanese Thought. Professor de Bary. M 9-10:50.
Persian G4602y.	Introduction to Persian Literature. Professor Yar-Shater. Tu 2:10-4.
Sanskrit G4101x-G4102y.	Elementary Sanskrit. Professor Miller. M W 12-2.
Sanskrit G6101x-G6102y.	Sanskrit II. Professor Riccardi. M W 12-2.



<i>Professors</i>	Joseph Gerard Brennan, Mary Mothersill (Chairman; 326D Milbank Hall)
<i>Associate Professor</i>	Sue Howard Larson
<i>Assistant Professor</i>	Onora Sylvia Nell
<i>Instructor</i>	John Francis Lad

Officer of Columbia University giving instruction in Barnard College:

<i>Assistant Professor</i>	James W. Forrester
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The major in philosophy is designed to develop competence in techniques of conceptual analysis and to acquaint the student with the major areas for investigation in traditional and contemporary philosophic theory.

Within the limits of the prerequisites described below, philosophy courses may be taken in any sequence: the numbers assigned to particular courses indicate roughly the level of competence expected of students. (Transfer students who wish to count courses taken elsewhere as prerequisites for Barnard courses must have written permission from the Chairman of the Philosophy Department and may be required to take a placement test.)

A student who majors in philosophy is required to take the following courses or their equivalents: 1; 5 or 32; 8 or 77; one of the following combinations: 35 and 36, 35 and 2x, 36 and 2x; one elective course; and in the senior year, the seminar, 87-88. Philosophy majors are urged to satisfy the logic requirement, 5 or 32, as early as possible and must do so no later than the spring semester of their junior year. Qualified senior majors are permitted to enroll in philosophy courses offered by the Graduate School of Arts and Sciences of Columbia University. Permission for such enrollment should be obtained from the chairman of the Barnard department.

## 1x (or 1y). Introduction to Philosophy.

Interpretation and analysis of major topics in ethics, metaphysics, theory of knowledge. Readings from historical and contemporary sources. Professors Brennan, Forrester, Larson, Mothersill, and Nell, and Mr. Lad. Section I M W F 9. [1] Section II M W F 10. [2] Section III M W F 11. [3] Section IV Tu Th 10:35-11:50. [7] Section V M W F 12:10. [12].

## 2x, 2y. First-Year Seminar.

[0]

Autumn Term: Intensive study of selected works of Aristotle. Spring Term: Motives and intentions. Reading in contemporary philosophical and psychological literature. Limited enrollment. Prerequisite: Course 1 or permission of the instructor. Autumn Term: Professor Forrester. Spring Term: Professor Nell. Tu Th 2:10-3:25.

- 5. Logic I.** [4]  
Presented as a formal science, logic will be distinguished from the methodology of the empirical sciences. Analysis of the formal elements of classical logic will be followed by an introduction to symbolic logic. Professor Brennan. M W F 1:10.
- 8. Ethics.** [6]  
An introduction to the central problems of moral philosophy. Among the topics covered are: action and reasons for action; pleasure and pain; obligation, rights and duties; alternative moral ideals; the use of moral language. Prerequisite: Course 1 or permission of the instructor. Professor Mothersill. Tu Th 9:10-10:25.
- 32. Logic II.** [9]  
An introduction to formal systems of propositional logic and first order quantification theory. Consideration of questions concerning consistency, completeness, compactness, and decidability. Selected topics in semantics and the philosophy of logic. Prerequisite: Course 5 or permission of the instructor. Mr. Lad. Tu Th 2:10-3:25.
- 33. The Concept of Beauty.** [7]  
An analysis of parallels between made and found objects; portraits and portrait-subjects; music and sound-effects; film and documentary; poetry and speech. Selected readings from contemporary sources. Prerequisite: Course 1 or permission of the instructor. Professor Mothersill. Tu Th 10:25-11:50.
- 35, 36. History of Modern Philosophy.** [2]  
Autumn Term: Conceptions of scientific method; the continental rationalists. Readings include selections from Descartes, Hobbes, Spinoza and Leibniz. Spring term: Moral and political philosophy; theory of knowledge. Readings include selections from Locke, Berkeley, Hume and Kant. Either term may be taken separately. Professor Nell. M W F 10.
- 38. Twentieth Century Philosophy.** [5]  
A study of some major issues of recent philosophy. Readings include selections from the works of Russell, Wittgenstein, Carnap, and Quine. Mr. Lad. M W F 2:10.
- 39, 40. Supplementary Readings in Philosophy.** [0]  
To be taken only with the consent of the instructor and permission of the department.
- 43, 44. Philosophical Implications of the Modern Novel.** [3]  
Autumn Term: Reading of Schopenhauer's *The World as Will and Idea* and three works of Nietzsche, followed by a study of Thomas Mann's *The Magic Mountain*, accompanied by a reading of other Mann works. Herman Hesse's novels are discussed with particular attention to *Steppenwolf* and *The Glass Bead Game*. Spring Term: The Flaubert-Joyce theory of art and the artist is compared to the views of Tolstoy and Henry James. The relation of Bergson's philosophy to the work of Gide and Proust is examined, and certain novels of the French "Mandarins" are read. A small number of twentieth-century English and American novels will be read with reference to implicit ideologies and world views. Either term may be taken separately. Not open to freshmen. Professor Brennan. M W F 11.

49. **Phenomenology and Existentialism.** [9]  
A survey of the development of twentieth century continental thought. Readings include selections from the works of Brentano, Meinong, Frege, Husserl, Heidegger, and Sartre. Prerequisite: Course 1 or permission of the instructor. Mr. Lad. Tu Th 2:10-3:25.
75. **Social Philosophy. Seminar.** [0]  
A systematic exposition of the concepts of liberty, equality, and fraternity with particular attention to the question of compatibility of these ideals. Selected readings from Hobbes, Rousseau, Mill, Marx, and contemporary authors. Prerequisite: Course 1, 5, 8, or permission of the instructor. Professor Nell. M W F 2:10.
77. **Theory of Knowledge. Seminar.** [0]  
A general account of the concepts of belief, knowledge, evidence, judgment and error. Readings from contemporary and classical sources. Prerequisite: Course 1, 5 or permission of the instructor. Mr. Lad. Tu Th 10:35-11:50.
79. **Theory of Meaning.** [5]  
Consideration of the problems of constructing a theory of meaning for a natural language. Readings from Frege, Tarski, Quine, Davidson, Austin and others. Prerequisite: Course 1 or 5 or permission of the instructor. Professor Larson. M W F 2:10.
82. **Metaphysics.** [4]  
Systematic consideration of problems related to some fundamental metaphysical distinctions, including substance-attribute, particular-universal, mind-body, necessity, contingency and causality. Readings in contemporary and classical philosophy. Prerequisite: Course 1 or the equivalent. Professor Larson. M W F 1:10.
84. **Philosophy of Education.** [4]  
Classical readings include Plato's *Republic* and Rousseau's *Emile*. The idea of individualism, in both its European and American forms, is traced from Rousseau to Dewey, leading to discussion of problems in present day American educational ideology. Selected readings are assigned concerning ideas of "middle class" and black education. Discussion of theories of higher education is supported by readings from Newman's *The Idea of a University* as well as some related to recent events in American universities. Professor Brennan. M W F 1:10.
- 87-88. **Senior Seminar.** [0]  
An intensive study of selected philosophical classics. Discussions, oral reports and term papers. Required of all majors in their senior year. Autumn Term: Professor Larson. Spring Term: Professor Nell. W 3:10-5. Conference hours to be arranged.

## Columbia College and School of General Studies Courses

- W1103x-W1104y. **The History of Philosophy.**  
A survey of the positions of the major philosophers. Autumn Term: Thales through St. Augustine. Spring Term: St. Thomas through Kant. Either term may be taken separately. Mr. Walsh. M W 2:40-3:55.



[W3112x. **Philosophy of Mathematics.** Mr. Steiner. Not given in 1972-73.]

W3177y. **Philosophy of Language.**

Philosophical significance of recent theories of grammar and language acquisition. Problems of translation, universal grammar and canonical form. Basis in formal grammars of such philosophical concepts as causality, natural kinds, and performatives. Readings from Aristotle, Jespersen, Chomsky, Quine, Wittgenstein and others. Mr. Higginbotham. M W F 10.

W3110x. **Aesthetics.**

Expression theories of art (Hegel, Nietzsche, Croce, Freud); the meaning of "Modern" (Kant and Heidegger); imitation theories of art (Plato and Aristotle). Contemporary theories of criticism. Open to students in philosophy, literary disciplines and art history. Mr. Kuhns. Tu Th 11-12:15.



<i>Associate Professor</i>	Jeanette S. Roosevelt
<i>Assistant Professor</i>	Marion R. Philips
<i>Associates</i>	Gay Delanghe, Sandra Genter, Edith G. Mason (Chairman)
<i>Instructors</i>	Alice Braunwarth, Barbara Fitts, Linda Lerner
<i>Part-Time</i>	Janet Soares

The program is organized and administered by the Department of Physical Education in cooperation with the Medical Department and the Recreation and Athletic Association. It is designed to provide the students with knowledge and skills concerning health, physical activities, both sports and dance, and recreation.

**Medical Examinations and Posture Analysis** Two complete medical examinations by the College Physician are required of all students during the four years. One complete posture examination is given by the Department of Physical Education. Subsequent posture examinations will be given whenever indicated. The results of these examinations are expressed in terms of a health and activity grade which determines the program best suited to the individual.

**Requirement** Completion of two semesters as Freshman and two semesters beyond Freshman year. Transfer students are required to have two semesters beyond Freshman year unless they are Freshmen transfers. The requirement is met by two classes per week on different days. Students who have completed their requirement have the opportunity to take classes optionally.

**Registration** Students are sent preregistration forms on which they can indicate their choices of activities and further information about registration procedure are also included on the form. Entering Freshmen will receive registration information during Orientation.

**Program of Activities** The following courses are not offered for academic credit but will fulfill the physical education requirement. In all activities students are advised to register according to their skill level; beginner = (a), low intermediate = (b), intermediate = (c), advanced = (d).

**Aquatics 20x.** Red Cross Senior Life Saving Course. (c,d)

**21y.** Water Safety Instructors Course. (d)

**22.** Swimming. (a,c,d)

**23.** Advanced Aquatics. (d)

The course will include springboard diving, canoe and rescue skills, and skin diving in addition to focusing on real proficiency in the advanced strokes, including the inverted breaststroke and dolphin butterfly.

**24.** Synchronized Swim. (c,d)

- 25. Speed Swim. (d)
- 26. Swim-and-Stay-Fit. (c)
- 27. Open Hour Swim. (d)

**Dance 30. Modern Dance. (a,b,c,d)**

- 31. Ballet. (a,c)
- 32. Jazz. (a,c)
- 33. Folk Dance. (a,c,d)

Instruction in International, African, Balkan, and Israeli Dances, as well as the folklore of the countries, is given by experts in the respective forms of folk dance. Demonstrations of folk dances, under the direction of the Department, are given by members of the advanced classes.

- 34. Tap Dance. (a)
- 35. Movement Workshop. (a,d)

For those wishing a more concentrated approach to the understanding of body movement and its creative potentials. The study of body movement, based upon Laban's Effort-Shape Theory, which emphasizes kinesthetic perception and range of movement possibility through the exploration and analysis of space, time, and energy. Performance opportunities for advanced students.

**Special Activities Body Conditioning. (a,c)**

- 40. For students who prefer a strenuous exercise program which concentrates on improvement of the tone of the whole body; activities are designed to promote increased flexibility, strength, agility, and relaxation.
- 41. Corrective Exercises.  
Classes offered specifically for those whose posture analysis reveals functional deviations which can be worked with better in small groups. Dysmenorrhea, constipation, and other conditions of health related to poor posture are discussed and special exercises prescribed.
- 42. Jogging.
- 43. Relaxation.

Instruction and practice in techniques of relaxing skeletal muscles. Enrollment limited to students recommended by the College Physician.

- 44. Self Defense.
- 45. Yoga.

- Sports 50. Archery. (a,c,d)**
- 51. Badminton. (a,c,d)
- 52. Basketball. (a,c,d)
- 53. Bowling. (a,c,d)
- 54. Fencing. (a,c,d)
- 55. Volleyball. (a,c,d)
- 56. Tennis. (a,b,c,d)

**Courses for Credit** The following courses are offered for academic credit. For course description see Dance, pages 90-91.

- Dance 60. Dance Workshop.**
- 63. Form in Dance Composition.
- 64. Content in Dance Composition.



<i>Professor</i>	Polykarp Kusch
<i>Visiting Professor</i>	Samuel Devons <sup>1</sup> (Director of History of Physics Laboratory)
<i>Associate Professor</i>	Richard M. Friedberg <sup>2</sup> (Chairman; 503 Altschul Hall)
<i>Assistant Professor</i>	Sigalia Dostrovsky (Acting Chairman, 1972-73)

Officers of Columbia University offering courses listed below:

<i>Professors</i>	Paolo Franzini, Sven Hartmann, Joaquin M. Luttinger, Robert Novick, Allan M. Sachs, C. S. Wu
<i>Associate Professors</i>	Charles Baltay, William Happer, W. Y. Lee
<i>Assistant Professors</i>	J. Roger P. Angel, Jeffrey Appel, Robert Guernsey, Riley Newman, Richard Wolff

<sup>1</sup> Absent on leave, Spring Term.

<sup>2</sup> Absent on leave, 1972-73.

The department offers five distinct introductory sequences, only one of which may ordinarily be taken for credit.

1. Physics C1001-C1002 is designed for liberal arts students who wish to achieve a qualitative understanding of the science; taken with laboratory (Physics 1, 2) it satisfies the science requirement of Barnard College. (See also Physics V1305x, V1306y.)
2. Physics C1003, C1004 is suitable for premedical students who really cannot cope with the elements of calculus, or cannot arrange to take Physics 3, 4.
3. Physics 3, 4 is intended for students majoring in other sciences, or premedical students with a minimal background in calculus. It will be given on a slightly higher level than Physics C1003, C1004, but is not recommended as a foundation for more advanced work in physics.
4. An entering student with a serious interest in physics should enroll in the autumn term in Physics C1006x, which begins a four-term sequence (C1007y or C1107y, C1011x, C1012y) leading to more advanced courses. (These introductory courses may be taken without laboratory by nonmajors. See the Columbia College catalogue for the appropriate course numbers.)
5. Freshmen with exceptional aptitude for physics and a good mathematical background may be admitted into the two-semester sequence, Physics C1021, C1022, which serves by itself as an introduction to the W3000 courses. Admission is by special interview with the instructor. A student interested in this course should, if possible, attend the "Physics Placement Meeting" announced in the Columbia College Freshman Week Program.

The program of study beyond the C1000 level, leading to a major in physics, is worked out individually with the department. Normally it includes Physics W3003, W3007, W3008, G4015, G4016, some intermediate lab work, and W3072, plus one or more additional courses at the G4000 level. Four terms of calculus are essential, and some additional work in mathematics is recommended. The program should also include a year of chemistry, although in some instances astronomy or biology may be substituted. The major examination consists of the Undergraduate Record Examination in physics and a one-hour oral examination.

**1, 2. History of Physics Laboratory. (Elementary.)**

A selection of experiments illustrating discoveries, measurements and concepts which have played a major role in the development of physics. These experiments are performed and reviewed with regard to their actual historical context. No credit. Professor Dostrovsky. Hours to be arranged.

**C1001x, C1002y. Elementary Physics.**

An introductory treatment of the major discoveries and theories of physics and their historical development. C1001: classical (17th century) physics. C1002: contemporary (20th century) physics. This course does not fulfill the physics requirement for admission to medical school. It is primarily addressed to non-science students. This course together with Physics 1, 2 fulfills the Barnard science requirement. Professor Newman. Lec. Tu Th 11-12:15. Discussion: 1 hour to be arranged.

**3, 4. General Physics.**

**[2]**

Autumn Term: Mechanics, heat, and optics. Spring Term: Electricity, magnetism, and modern physics. Recommended parallel: Calculus I, II. Professor Friedberg and assistants. Lec. M W F 10. Three hours of laboratory and one recitation hour, to be arranged at the first meeting of the class. Laboratory is required of all students wishing to receive credit for the course.

**C1003x, C1004y. General Physics.**

The study of matter and motion, energy and heat, electricity, magnetism, optics, and atomic and nuclear physics. Professor Appel. Lec. M W 11. Recit. F 11 or 12. Lab: 3 consecutive hours to be chosen from M Tu W Th F 1:10-4 or 4:10-7. Recitation and laboratory sections are arranged after the first class meeting in 301 Pupin on Friday, September 8, at 11.

**V1305x, V1306y. Discovery and Experiment in Physics. (formerly 5,6)**

Experimental work in the History of Physics Laboratory together with readings and discussions on historic experiments in physics. Critical study of primary sources and a paper on some specific topic. This course fulfills the Barnard science requirement. Professors Dostrovsky and Devons. Lec. Tu Th 2:10-3:25. Two hours of laboratory to be arranged.

**C1006x. General Physics I. Mechanics.**

Fundamental laws of mechanics: kinematics; dynamics; work and

energy. Parallel: Calculus I or the equivalent. Professors Baltay and Angel. Lec. and Recit. M W F 9. Lab. to be arranged.

**C1007y. General Physics II. Electricity and Magnetism.**

Electrostatics; direct currents; electromagnetism; alternating currents; wave motion. Prerequisite: C1006. Parallel: Calculus II or the equivalent. Professor Guernsey. Lec. and Recit. M W F 9. Lab. to be arranged.

**C1107y. General Physics II. Electricity and Magnetism.**

The topics of Physics C1007 are considered in greater depth, with less time spent on routine applications and with extended treatment of some of the more advanced topics. Prerequisites: same as for C1007y. Professor Angel. Lec. and Recit. M W F 9. Lab. to be arranged.

**C1011x. General Physics, III: Optics and Thermodynamics.**

Acoustical waves; nature of light; polarization; geometrical optics; interference and diffraction of light; heat; states of matter; gas laws; the laws of thermodynamics; kinetic theory of gases. Prerequisite: C1006. Parallel: Mathematics C1201 or C1203. Professors Novick and Guernsey. Lec. Tu Th 9. Recit. 1 hour to be arranged after the first meeting. Lab. to be arranged.

**C1012y. General Physics IV: Modern Physics.**

Quantum effects; atomic structure and spectra; nuclear structure and reactions; fission and fusion; elementary particles. Prerequisite: C1011x and C1007 or C1107. Professor Novick. Lec. Tu Th 9. Recit. 1 hour to be arranged after the first meeting. Lab. to be arranged.

**C1021x, C1022y. General Physics.**

Mechanics, heat, electricity, magnetism, light and modern physics. Prerequisite: advanced placement in mathematics or some knowledge of differential and integral calculus, and the permission of the departmental representative. (A special placement meeting is held during Freshman Orientation.) Intended primarily for freshmen with special ability in mathematics and physics. Professor Wolff. Lec. M W 4:10-5:25. Lab. to be arranged.

**11, [12]. History of Physics Laboratory.**

Some of the experiments which played a major role in the logical and historical development of physics are conducted essentially in their original form and with proper attention to their historical context. Study of the appropriate historical material accompanies the laboratory work. Prerequisite: A good basic knowledge of physics and permission of the instructor. Work in this course may be done in conjunction with Physics W3081x or y. Professors Devons and Dostrovsky. Hours to be arranged.

**32. The Origins of Vibration Theory: Physics and Music.**

Topics in the historical development of vibration theory. Antiquity: mathematical theories of music. Seventeenth century: interaction between physics and music; formation of the concepts of frequency, harmonics, propagation. Eighteenth century: analysis of the vibrating string and the propagation of sound. Nineteenth century: harmonic analysis; the principle of superposition; vibrations of surfaces and solids—experiment and theory; investigation of consonance, dissonance, and tone color. Permission of the instructor required. Professor Dostrovsky. Tu Th 10:35-11:50.



**W3003x. Mechanics.**

Newtonian mechanics; conservative forces and potentials; oscillations; central forces. Prerequisite: general physics and integral calculus. Professor Devons. M W F 10.

**W3007x, W3008y. Theory of Electricity and Magnetism.**

A discussion of the phenomena of electrostatics, current flow, and electromagnetism, and the description of these phenomena in mathematical terms. The treatment is directed toward the formulation of Maxwell's equations and includes some application of general principles to phenomena associated with lumped-impedance circuits, transmission lines and plane electromagnetic waves. Prerequisite: an introductory course in electricity and magnetism (C1007 or equivalent). Professor W. Lee. Tu Th 9:35-10:50.

**W3072y. Seminar in Current Research Problems.**

A detailed study of a selected field of active research in physics. The motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems. Prerequisite: Permission of the department representative. Professor . . . Th 4:10-5:25.

**W3081x or y. Intermediate Laboratory Work.**

Experiments are available in physical optics, electronic circuits, atomic physics, and nuclear physics. An individual program of experiments is arranged for each student in accordance with her interests and previous experience. Immediately after registration and not later than the end of the second day after the beginning of classes, registrants should consult the staff member in charge about assignment to a laboratory section and the schedule of experiments to be performed. Professors Franzini and Sachs. One four-hour period weekly. Hours to be arranged by the instructor.

**Graduate Courses** The following G4000 courses form an integral part of the undergraduate major program in Physics:

**G4001x, [G4001y]. Some Topics in the History of Physics: 17th to 20th Centuries. (Seminar)**

Theories of light (17th-18th centuries), early studies of electricity (18th century), mechanics and electromagnetism (18th-19th centuries), electrotechnology (19th century), fluid motion and development of thermodynamics (19th century), evolution of atomic concepts (17th to 20th centuries), physics and living matter (17th to 19th centuries). Prerequisite: C1006, C1007, C1011, C1012, or permission of the instructor. Professor Devons. Hours to be arranged.

**G4003y. Lagrangian Mechanics.**

Generalized coordinates; Lagrange's and Hamilton's equations with applications including rigid bodies. Normal coordinate treatment of coupled systems. Prerequisites: integral calculus and differential equations and W3003 or equivalent. Professor . . . M W F 10. Problem session (optional): hours to be arranged.

**G4009x. Light.**

Physical and geometrical optics. Prerequisite: general physics and integral calculus. Professor Luttinger. M W F 10.

**G4013x. Thermodynamics.**

General principles of thermodynamics; the three fundamental laws; definition of entropy and the thermodynamic potentials; simple application of thermodynamics; microscopic interpretation of thermodynamics. Prerequisite: W3003 and W3007. Parallel: G4015. Professor Hartmann. Tu Th 2:40-3:55.

**G4015x, G4016y. Atomic Physics and Introductory Quantum Mechanics.**

Spectroscopic and other phenomena which form the experimental basis of modern atomic physics. The interpretation of atomic structures and radiation phenomena in terms of the quantum theory. Elementary wave mechanics is developed and applied to simple atomic structures and to potential well and barrier problems. Atoms in applied fields and the interactions in many electron atoms are treated by perturbation theory. The theory of spin and angular momentum. Prerequisite: C1006, C1007, C1011, C1012, or their equivalents, and two additional terms of course work in intermediate or advanced physics. Professor Happer. M W F 9. Problem session (optional): hours to be arranged.

**G4040y. Nuclear Physics.**

An introductory course in nuclear physics. General properties of nuclei, the systematics of stable nuclei, the two-body problem at low energies and nuclear forces, alpha radioactivity, beta decay, emission of electromagnetic radiation and selection rules, nuclear shell structure, phenomena associated with the passage of nuclear radiations through matter and methods of detection, high-energy accelerators, nuclear reactions and artificial radioactivity, neutrons and nuclear fission, properties and interaction of mesons. Prerequisite: G4015 or the equivalent. Professor Wu. Tu Th 11-12:15.

**G4050y. Elementary Particle Physics.**

A basic treatment of elementary particle physics with an emphasis on the experimental point of view: classification and properties of the particles; strong interactions of strange and nonstrange particles; weak interaction; symmetry principles. Prerequisite: G4015x. Professor Baltay. M W 2:40-3:55.

*Robb Visiting**Professor* Alpheus T. Mason*Professor* Demetrios Caraley (Chairman; 409 Lehman Hall)*Associate Professors* Dennis Dalton, Peter H. Juviler, Inez S. Reid <sup>1</sup>*Assistant Professors* Lynn Davis, Janet Hannigan*Lecturer* Annette B. Fox*Associate* Bruce Feld

Officers of Columbia University offering courses listed below:

*Professors* Zbigniew Brzezinski, Herbert A. Deane, Julian Franklin, Charles V. Hamilton, Roger Hilsman, Harvey C. Mansfield, Warner R. Schilling, Alan F. Westin*Associate Professor* Bruce L. R. Smith*Assistant Professors* Gordon Adams, Robert S. Gilmour, Stanley Heginbotham, Ira Katznelson, Walter Odajnyk*Lecturers* Seweryn Bialer, Stuart Fagan, Donald Haider<sup>1</sup> Absent on leave, Autumn Term.

The purpose of the study of political science is to develop understanding of the basic political institutions and processes in human society. This understanding involves analysis and evaluation of political systems in the context of the challenges they face and the changes they undergo. The major is designed to equip the student to play an effective role as citizen in a democratic political order, to participate more actively in political life as public or party official, civil servant, lawyer, or political commentator, or to undertake graduate training in political science in preparation for a career in college teaching.

A student majoring in political science is required to take a minimum of nine semester-courses from the Department's listed offerings, including Courses 1; either 2, 11, V3411, or V3412 (formerly 13 or 14); and two colloquia from among those designated by an asterisk (\*). A student majoring in urban studies with a concentration in political science is required to take a minimum of six semester courses including Courses 1, V3313, and two from among: 26, 27, 28, 29, V3407. In order to explore more adequately the techniques of scholarly investigation and to have the opportunity of independent specialized work, both majors and concentrators are required to write a senior essay as part of the work for the senior research seminar (either Course 61-62 or V3711x-3712y).

The department's requirements are flexibly drawn so as to permit a major in consultation with her adviser to plan an overall program that, while providing some background in



various areas of government and politics, can place special emphasis on such particular interests as the American political system (including its urban subsystem), foreign political systems, international relations, or political theory.

Other social sciences: In view of the essential unity of the social sciences, students majoring in political science are urged to take at least three courses from among the following departments as selected in conference with the adviser: anthropology, economics, history, sociology.

**General Courses** Courses listed under this heading may be taken without previous study of political science.

1. **Dynamics of American Politics.** [3]  
An introduction to political dynamics through an examination of the American political system at the national level. Particular attention is given to how political officials are chosen and replaced, how governmental decisions are made, and how governmental performance affects demands on and support for the political system. Mr. Feld (in charge) and other members of the department. Lectures M W 11. Discussion groups (choose one): M 2:10, 3:10; Tu 11; W 12:10, 1:10; F 10, 11.  
Sign-up sheets for discussion groups at different hours are posted outside 408 Lehman.
2. **Comparative Politics.** [3]  
Examination of basic approaches to the study of comparative politics and analysis of selected political systems in Europe and Africa. Professors Davis and Juviler (in charge). Lecture M 11-12:15 and discussion section W 11-12:15 or other hours to be arranged.
3. **Electoral Politics.** [0]  
Intensive study of electoral politics, with particular emphasis on party and non-party campaign organizations, campaign strategies and tactics, and factors influencing the behavior of voters. Participation in or first-hand observation of an election campaign is a required part of the course. Miss Merget. M W F 10.
4. **Freshman Seminar in Government.** [0]  
Intensive study of a topic to be selected by the instructor. The aim of the course is to acquaint students with the methods and sources of political science and to provide experience in discussion and writing. Topics for Spring 1973, sections, instructors, and hours to be announced in December.
7. **Modern Political Movements.** [7]  
A tentative inquiry into the roles of deviance and dissent in organized society, and the types of political movements; selective case studies of movements such as anarchism, Marxism, fascism, nationalism, and movements of racial or ethnic self-assertion. Professors Dalton and Juviler (in charge). Lec. Tu Th 10:35-11:50. Conferences at hours to be arranged.
- V3313y. **American Urban Politics.** [5]  
Patterns of government and politics in America's large cities and suburbs. Analysis of the influence of party leaders, local officials,

social and economic notables, racial, ethnic and other interest groups, the press, the general public, and the federal and state governments. The impact of urban governments on ghetto and other urban conditions. Professor Caraley (in charge) and Mr. Feld. Lec.: M W 2:10 and periodic discussion sections to be arranged.

**10. Workshop in Urban Politics. [0]**

Intensive study of selected aspects of urban government and politics. Each student will carry out a special research project based in part on actual participation in or first-hand observation of some element of urban governmental and political activity. Prerequisite or co-requisite: V3313 and permission of the instructor. Miss Merget. Bi-weekly meetings. Th 4:10-6.

**11. International Politics. [5]**

An exploration of the basic setting and dynamics of global politics, with emphasis on contemporary problems and processes. Open to freshmen with permission of the instructor. Professor Davis. M W 2:10-3:25.

**V3411x, V3412y. History of Political Thought (formerly 13-14).**

Analysis of major political writings from Plato to the present. Emphasis is on a comparison of basic ideas and concepts. Course 13 or V3411 is prerequisite to Course V3412. Section I Professors Franklin (3411) and Deane (3412). M W 11-12:15. Section II Professor Dalton. Tu Th 2:10-3:25.

**Specialized Courses American Government and Politics**

**[15y. The Making of American Foreign and Military Policy.**  
Professor Davis. Not given in 1972-73.]

**25. The Judicial Process. [7]**

Development of the role of the Supreme Court in the American political system. Emphasis on analysis of landmark decisions from 1790 to 1972. Prerequisite: Course 1 or a course in American history or permission of the Barnard chairman. Professor Mason. Tu Th 10:35-11:50.

**26. Problems in Civil Rights and Liberties. [6]**

Analysis of the political and legal context for current issues in freedom of speech and religion, racial discrimination, the right to privacy, and criminal law enforcement. Prerequisite: Course 1. Professor Reid. Tu Th 9:10-10:25.

**C3399x. The Supreme Court and American Constitutional Law.**

The role of constitutional law and the judiciary in the American political system, with emphasis on the United States Supreme Court. Issues of civil liberties, political trials, federalism, and economic regulation are discussed. Students write a case study of a recent Supreme Court decision. Prerequisite: Course 1. Professor Westin. M W 11-12:15.

**C3400y. Colloquium on the Law and Politics of Civil Liberties.**

After a survey of existing law on civil liberties and rights, issues of democratic theory, the role of groups in bringing test cases, the dynamics of civil liberties litigation will be discussed, using case

studies involving political surveillance, racial equality, church-state issues, consumer rights, women's rights, and other issues. Prerequisite: Course 1 and permission of the instructor. Professor Westin. Hours to be arranged.

**\*27 Colloquium on the Content of American Politics.**

Readings, discussions, and reports on the major policy conflicts in American national politics in recent decades and especially since 1960. Prerequisite: Course 1 or V3313. Professor Hannigan. Tu 2:10-4.

**\*28. Colloquium on Congressional Politics. [0]**

The interrelations of structure, process, and policy output in the American Congress, including the legislative role of the President. First-hand examination of hearings, reports, debates and voting patterns, and preparation during reading period of case studies on individual bills. Prerequisite: Course 1 or V3313. Instructor to be announced. Th 2:10-4.

**F3311x. The American Party System.**

Ways by which interests outside government achieve political influence at the national level; factors which promote stability and legitimacy in an age of rapidly growing demands. Primary emphasis on political parties, with attention to political participation, interest groups, and electoral behavior. Prerequisite: Course 1 and junior standing. Mr. Haider. M W 4:10-5:25.

**C3312y. Executive Politics and Decision Making.**

An analysis of interagency politics and bargaining within the executive branch of the national government of the U.S. and its implications for the public policy process. Prerequisite: Course 1. Professor Smith. M W 2:10-3:25.

**W3315x. Urban Political Problems and Policies.**

An analysis of urban political problems stressing urban stratification, power relationships, and substantive policy-making. Topics include the politics of housing and urban renewal, education, poverty and welfare, and the establishment of new mechanisms of urban participation. Prerequisite: V3313. Professor Katznelson. M W 11-12:15.

**\*29y. Colloquium on Selected Topics in Urban Politics.**

Readings, discussions, and reports on selected topics in urban politics. Specific emphasis for spring 1973 will be announced in December. Prerequisite: Course V3313 and permission of the instructor. Instructor to be announced. Hours to be arranged.

**V3407y. Colloquium on Urban Black and Minority Politics.**

Comparative analysis of the politicization of urban ethnic groups, with emphasis on the emerging political patterns and problems of black urban communities. Open only to Barnard and General Studies students. Prerequisite: Course 1 or V3313y, and junior standing. Enrollment limited, sign-up sheet on bulletin board, 408 Lehman. Professor Hamilton. Th 10-11:50.

**\*C3713y. Colloquium on National Economic Policies.**

Readings, case studies, and discussion bearing on the process and problems of making public policy in economic affairs. Prerequisite: Course 1 and permission of the instructor. Professor Mansfield. Th 2:10-4.



**\*C3715y. Colloquium on the Politics and Administration of Ecological Problems.**

Readings and research on the politics of environmental control. Analysis focuses on alternative political processes and policy outcomes for air, land and water resources, and space utilization. Prerequisite: Course 1 and permission of the instructor. Professor Gilmour. Hours to be arranged.

**Foreign Governments and Politics**

[\*17. **Colloquium on Comparative Politics of Western Europe.**  
Not given in 1972-73.]

[19. **Soviet Politics.** Professor Juviler. Not given in 1972-73.]

**\*20. Colloquium on Communism and Revolutionary Change.** [0]

Readings, discussions, and oral and written reports on the development of Communist and other revolutionary movements in the twentieth century; consideration of questions raised by theoretical and reflective works on the causes, nature, and consequences of recent revolutions and counterrevolutions. Prerequisite: Course 2, 7, 19, or permission of the instructor. Professor Juviler. Th 2:10-4.

**\*21. Colloquium on the Politics of Social Change in the U.S.S.R.**

Discussion, analysis, and comparison of selected case studies of the Soviet regime's responses to issues of social change. Prerequisite: Course 2 or 7 or other formal study of Soviet government and permission of the instructor. Professor Juviler. Th 2:10-4.

**23y. African Politics.** [7]

Comparative analysis of selected African political systems, with emphasis on the problems of development and modernization. Prerequisite: Course 2 or permission of the instructor. Professor Reid. Tu Th 10:35-11:50.

**24. Asian Politics.** [2]

Comparative analysis of Asian national experiences and political ideas, with particular attention to China and India. Prerequisite: Course 2 or permission of the instructor. Professor Dalton. M W F 10.

**W3512y. Democratic Politics in Western Europe.**

A comparative analysis of politics in Great Britain, France, and Germany with emphasis on political culture, governmental institutions, parties, pressure groups, policy-making in modern industrial societies, and political changes. Prerequisite: Course 2. Professor Adams. Tu Th 2:10-3:25.

**C3631y. Politics in Developmental Perspective.**

The dynamics of change that produce political development, stagnation, and decay. Problems of political identity legitimacy, levels and quality of political participation, the capacity of governmental and political institutions, and national integration. Prerequisite: Course 2. Professor Heginbotham. Tu Th 10:35-11:50.

**G4461x. Latin American Political Behavior.**

Comparative analysis of major groups and processes in Latin American politics. Prerequisite: Course 2 and junior standing. Mr. Fagan. Tu 2:10-4.

## **G4487y. The Dynamics of Soviet Politics.**

The role of Marxism-Leninism in Soviet politics; the role of the Communist Party in Soviet government and society; problems of industrialization, stages of development and political change; the balance of political forces and pressures in a totalitarian state. Prerequisite: Course 2 or 7 and junior standing. Professor Brzezinski. Th 10-11:50.

## **Political Theory**

[16. **Personality and Politics.** Not given in 1972-73.]

\*31. **Colloquium on American Political Thought.** [0]

Examination of revolutionary changes in American political ideas as exemplified in the accommodation of institutions to certain critical challenges. After discussion of the foundations of American ideas in the "old world," the critical periods to be covered include that of the struggle for independence; the controversy over the adoption of the Constitution and the Bill of Rights; the Jacksonian Revolution; the constitutional revolution of the 1890's; the Roosevelt era; the era of the Warren Court. Prerequisite: Permission of the instructor or the Barnard chairman. Professor Mason. Th 2:10-4.

[\*33. **Colloquium on Concepts of Political Theory.**

Professor Dalton. Not given in 1972-73.]

## **C3431y. Human Nature and Politics.**

The influence of human nature on political behavior and institutions. Readings from Plato, Marx, LeBon, Freud, Lasswell, Erikson, Lane. Consideration of individual and collective behavior, personality and politics, war and peace. Prerequisite: Course 7, V3411-V3412, and permission of the instructor. Professor Odajnyk. Tu Th 2:40-3:55.

## **International Relations and Foreign Policy**

18y. **Colloquium on Problems in International Politics.** [0]

Readings, discussions, and reports on selected problems in international politics. Topics for 1973: Psychological, cultural, and political factors involved in the outbreak and termination of wars. Prerequisite: Permission of the instructor. Professor Davis. Th 2:10-4.

## **C3655x. American Policies in World Politics.**

An analysis of the major revolutions in American foreign policy; special attention to World Wars I and II, and the response to nuclear weapons. Prerequisite: Course 11. Professor Schilling. Tu Th 11-12:15.

## **C3656y. American Foreign Policy: Process and Problems**

The politics of policy-making; case studies on the making of policy and how this process affects the substance of policy; some current and prospective policy problems in Europe and Asia. Prerequisite: Course 1 and junior standing. Professor Hilsman. Lecture: M 4:10-6. Discussion groups at hours to be arranged.

## **Courses for Majors and Concentrators Only**

Admission to particular sections of the senior seminar is limited. During Spring pre-registration students must obtain departmental approval for the section desired in the senior seminar.

**\*45y. Junior Colloquium on Concepts and Methods. [0]**

Analysis of central concepts and methodological techniques of political science. Professor Hannigan. Th 2:10-4.

**G4910x. Quantitative Methods in Political Science.**

Techniques and methodologies currently employed in political science. Scientific explanation and the logic of social science, concept formation and research design, data collection and processing, statistical measures for political analysis, questionnaire construction and survey research, indexes and scaling, multivariate analysis, reporting research findings, and research and theory. Prerequisite: junior standing. Professor Heginbotham. M 2:10-4.

**V3711x-V3712y. Senior Research Seminar in American Politics.**

Discussions, conferences, and the writing of a senior essay on selected topics of American public policy and politics. Section II concentrates on urban and congressional politics. Section I Professors Mansfield and Smith. Th 4:10-6. Section II Professor Caraley. W 4:10-6.

Note: Admission to Section I also requires permission of the Barnard chairman.

**61-62. Senior Research Seminar. [0]**

Discussions and conferences on the researching and writing of the senior essay. Section I (same as V3711x-V3712y). Section II . . . . . Tu 4:10-6. Section III Professor Juviler. Th 4:10-6. Section IV Professor Dalton. W 4:10-6. Section V Dr. Fox and Professor Davis. Th 4:10-6. Section VI Mr. Feld. Tu 4:10-6.

**Graduate Courses**

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



<i>Professor</i>	Richard P. Youtz (Chairman; 415F Milbank Hall)
<i>Associate Professor</i>	Barbara S. Schmitter
<i>Assistant Professors</i>	Edward S. Cobb, Barbara Mates, Thomas Biddle Perera, Susan R. Sacks
<i>Adjunct Associate Professor</i>	Alvin L. Atkins
<i>Adjunct Assistant Professors</i>	Lanny Fields, Adelbert Jenkins
<i>Instructor</i>	Sandra F. Stingle

Special facilities of the Department include the Hollingworth Laboratories and the following:

The Center for the Study of Early Childhood Development, opened in 1971, was founded by its Director, Dr. Barbara Mates. Students taking relevant courses work with children ranging from early-infancy to nursery-school age.

A Demonstration Laboratory Course in Learning (Course 5) using the Teaching Apprentice System of Instruction (TASI) is given by Dr. Edward S. Cobb in connection with his Teaching Apprentice Seminar (Course 49).

The Department's Psychophysiology Laboratory is under the direction of Dr. Thomas Perera. Students in related courses conduct research on the electrical activity of the human nervous system as it relates to higher mental processes.

A major in psychology: The student majoring in psychology studies the basic principles, methods, and findings of psychology and is introduced to their most important applications.

The groupings of courses given below are arranged in accordance with varying interests; the student should select one of the plans (a), (b), (c), or (d). In addition to the offerings listed in the announcement, advanced senior students with special interests may take appropriate courses in graduate school.

(a) General major: A student completing this major will have a good general background for activities in psychology or related fields, such as education, business, school psychology, psychometrics, personnel and social work, and similar areas. The major may be completed by fulfilling the following requirements:

Psychology: Courses 1, 5, 8, 9, one, or both, of 57 and 68; one other laboratory course, and other courses selected in consultation with the major adviser to complete the required 8 courses in the department.

Other fields: One course in philosophy, anthropology, or computer science; a one-year laboratory course in biology, physics, or chemistry.

(b) It is suggested that students who plan to obtain postgraduate professional training in clinical psychology, school psychology, vocational or rehabilitation counseling, or educational guidance should, in addition to the courses required for the major, include Courses 12, 16, 27, and two of the following: Courses 20, 21, 25, 38.

(c) Students interested in professional work in business or personnel should add the following to the requirements for the general major: Course 12. Economics 1, 2; 17, 18; and W3451x may be substituted for work in other fields.

(d) Students who wish to take postgraduate work in experimental psychology should add the following to the requirements for the general major: Courses 17, 57 and 68. In other fields work should include: full-year laboratory courses in two of the following: biology, physics, or chemistry; two semesters of calculus.

The major examination: This consists of the Undergraduate Record Examination in psychology. Students fulfilling any one of the four plans will have completed preparation for the major examination.

Laboratory Science Requirement: The college requirement in laboratory science may be satisfied by taking any two of the following courses: 5, 8, 12, 17, 20, 27, 30.

Notice: Because of anticipated additions to the department in both personnel and courses, student are asked to consult a revised announcement before final registration.

**1x (or 1y). Introduction to Psychology. [11]**

An introduction to the chief facts, principles, and problems of human behavior, through systematic study of a text, lectures, exercises, brief participation in a current investigation, and reading in special fields. Prerequisite for all other courses. Professors Cobb, Mates, Perera, and Youtz. Section I M W F 9. Section II M W F 10. Section III M W F 11. Section IV Tu Th 9:10-10:25.

**5. Psychology of Learning. [8]**

The basic methods, results, and concepts in the experimental analysis of learning. Laboratory work consists of experiments and demonstrations which mostly employ albino rats as subjects. Preparation of experimental reports is a major part of the course. Assignments deal mostly with experiments on infra-human organisms. Prerequisite: Course 1. Professor Cobb and assistants. Lec. Tu Th 11. Lab. (1 hour lecture, 2 hours projects) Tu 2:10-5, W 1:10-4, Th 2:10-5.

8. **Perception.** [8]  
An introduction to the problems, methods and results of studies in perceptual behavior. The literature will be surveyed; key experiments will be discussed in detail. Problems of definition and experimental method will be emphasized. In the laboratory students will conduct a series of typical experiments and will prepare systematic reports of their results. Prerequisite: Courses 1 and 5 or the equivalent. Not open to freshmen. Professor Perera and assistants. Lec. Tu Th 11. Lab. (1 hour lecture, 2 hours projects) W 1:10-4, Th 2:10-5.
9. **Statistical Design.** [6]  
An introduction to statistics and experimental design in psychology and allied subjects. Descriptive statistics, probability, and elementary procedures of statistical inference will be treated. The laboratory will provide students with empirical demonstrations of theorems used, but not mathematically derived, in the lectures, together with practice in the application of elementary statistical methods. Prerequisite: Course 1 or the equivalent. Professor Fields and assistant. Lec. Tu Th 9:10-10:25. Lab. (1 hour) Tu 10:35-11:25, Tu 12:10-1.
12. **Psychological Measurement.** [2]  
Introduction to test theory, including concepts of item construction, standardization, reliability, validity, and motivation. Emphasis is on design and research related to major categories of current tests. Laboratory projects will be concerned with constructing and evaluating test items under experimental conditions, with assessing various methods of test administration, and with the quantitative procedures necessary for such evaluations and assessments. Prerequisite: Course 1 and one course in statistics. Professor Schmitter and assistant. Lec. M W 10. Lab. (1 hour lecture, 2 hours projects) W 2:10-5, Th 2:10-5.
16. **Theories of Learning.** [6]  
A comparative study of the major accounts of the learning process. The course stresses the relation between each theory and the type and quality of research which is said to be generated by it. Seminar course limited to 20 students. Prerequisite: Courses 1, 5, and at least junior standing. Professor Cobb. Tu Th 9:10-10:25.
17. **Physiological Psychology.** [4]  
An introduction to the study of the relationships between bodily processes and behavior. Emphasis is placed upon the basic anatomy and physiology of sensory and motor functions, motivation, emotion, learning, and behavior disorders. The laboratory consists of individual and group experiments in these areas of study, and exercises on the anatomy of sense organs and the brain. Prerequisite: Course 1. Professor Perera and assistant. Lec. M W 1:10-2. Lab. (1 hour lecture, 2 hours projects) Tu 2:10-5, W 2:10-5.
20. **Language and Speech Development and Disorders.** [4]  
The psychological study of language and speech. Clinical and psycholinguistic consideration of language and speech perception, cognition, production, normal development, and pathology. Methods of experimental study, various theories, and problems are treated. Laboratory consists of experiments and projects, with systematic reports. Prerequisite: Course 1. Professor Mates and assistants. Lec. M W 1:10. Lab. (1 hour lecture, 2 hours projects) M 2:10-5, Tu 2:10-5.



- 21. Abnormal Psychology.** [2]  
The field of psychopathology, history, more common forms of mental inadequacy and disturbance and their psychological interpretation, including principles of mental hygiene and psychotherapy. Each class takes two trips to institutions for demonstrations of psychoses and deficiencies. Open to juniors and seniors who have had Course 1. Professor Youtz. M W 10.
- 25. Psychology of Personality.** [6]  
Contemporary theories of the development and organization of personality and their relation to other forms of psychological theory. Points of view discussed include those of Freud, Adler, Jung, neo-Freudians such as Horney and Sullivan, and others, including Murray and Kelly. Consideration is given to clinical applications of the theories. Prerequisite: Course 1 or the equivalent. Professor Schmitter. Tu Th 9:10-10:25.
- 27. Developmental Psychology.** [4]  
Comparative and experimental analysis of developmental transitions from simple to complex behavior. Consideration of genetic and environmental factors in human development. Laboratory consists mainly of work with nursery school children and systematic reports. Topics include sensori-motor, intellectual, linguistic, social, moral, and emotional development. Preference to juniors and seniors. Prerequisite: Course 1. Professor Mates and assistants. Lec. M W 1:10. Lab. (1 hour lecture, 2 hours projects) M 2:10-5, Tu 9-11:50, 2:10-5.
- 30. Psychology of Thinking.** [3]  
Survey of contemporary experimental approaches to the understanding of concept formation and problem-solving behavior, derived from learning theory, psycho-linguistics, logic, and information theory. The laboratory will consist of experiments and demonstrations of thinking behavior in animals, children, and adults. Prerequisite: Course 5. Professor Cobb and assistant. Lec. M W 11. Lab. (1 hour lecture, 2 hours projects) Tu 2:10-5, W 1:10-4.
- 34x. Educational Psychology.** [9]  
An examination of major theories and issues in the literature on human psychological development and learning fundamental to the educative process; an exploration of their educational implications and applications. Prerequisite: Course 1 or equivalent. Professor Sacks. Tu Th 2:10-3:35.
- 38. Social Psychology.** [6]  
An introduction to the study of social behavior. Among the topics considered are social learning, interaction, group behavior, and verbal behavior. Experimental contributions to the understanding of social phenomena are emphasized. Prerequisite: Course 1. Professor Atkins. Tu Th 9:10-10:25, and conference hour in connection with a project or paper.
- 39. Seminars on Special Topics: Psychological Analysis of Racism.** [0]  
Psychological factors influencing the development and expression of racist attitudes and actions, with special references to black-white confrontation. Emphasis on psychodynamic studies of hostility, anger, self-concept, mechanisms of defense, and other factors that produce and reduce racism. Each student will write an original

research paper. Limited to 20 students. Prerequisite: Courses 1 and, if convenient, 25, or written permission of the instructor. Professor Jenkins. Tu 4:10-6.

**45x (or 46y). Projects in Child Development. [0]**

Each student will do a study of an aspect of early childhood development. Students will also be trained to work with one of the groups of infants in Barnard's Center for the Study of Early Childhood Development. Limited to 10 students. Prerequisite: Course 27; or Course 20 plus readings. Professor Mates and assistant. W 3:10-5 plus hours to be arranged.

## Interdepartmental

**Course 1. Female and Male: An Interdisciplinary Approach. [7]**

Professors Komarovsky, Ehrenfeld, . . . . ., and Mates. May not be counted toward major. See page 65.

**48x (or 48y). Individual Projects. [0]**

Research projects will be planned in consultation with members of the department. Open to majors who have had Courses 5 and 8, on written permission of the member of the department who supervises the project. Members of the Department. Hours to be arranged.

**49. Teaching Apprentice Seminar. [0]**

An intensive analysis of the principles of conditioning covered in Course 5. In addition to supplementary materials, students read the material assigned to Course 5 students, prepare Reading Evaluation Forms, and demonstrate in the seminar superior comprehension of the subject matter. Individual work with Course 5 students. Prerequisite: Course 5 and permission of the instructor. Professor Cobb. Tu 11, Th 12:10-2.

**57. Contemporary Problems in Psychology. [8]**

An exploration of principal contemporary problems in psychology in terms of their background and present status. Each student prepares a paper reporting on the background and present status of a problem, theory, or important person. Prerequisite: Courses 5 and 8 or the equivalent. Professor Youtz. Tu Th 11.

**68. Case Histories in Experimental Design. [8]**

Discussion of stages in the experimental development of psychological concepts. Nonstatistical analysis of procedures and justifiable conclusions at stages of: speculation, measurement, observed relation, experiment, and theory construction. Application to articles in current journals, both experimental and clinical. Each student will choose an area of interest and prepare a paper reporting on its origins and present status. Prerequisite: Course 5 or 8 or the equivalent. Professor Youtz. Tu Th 11.

**The following Barnard courses may be of interest to majors. Some have prerequisites.**

[Anthropology V3027y (Culture and the Individual). Not given in 1972-73.]

Biological Sciences 8 (Ecology)

Biological Sciences 20 (Laboratory in Animal Behavior).

Linguistics V1101x, V1102y (Introduction to Linguistics)

Sociology 46x (Social Structure and Personality)

<i>Professor</i>	Theodor H. Gaster <sup>1</sup>
<i>Adjunct Professors</i>	John L. Mish, Albert W. Sadler
<i>Assistant Professors</i>	Elaine H. Pagels, John B. Snook

Officers of Columbia University offering courses listed below:

<i>Professors</i>	Joseph L. Blau, J. A. Martin, Jr.
<i>Adjunct Professors</i>	Peter L. Berger, David Weiss
<i>Assistant Professors</i>	Carol Christ, Carl Hester, Robert Somerville, Javier Teixidor
<i>Instructor</i>	Paul Valliere

<sup>1</sup> Emeritus

The purpose of the program is (a) to introduce the field of religion in general; (b) to present the thought, documents and history of the major religious systems of the East and West; and (c) to give students an insight into the distinctive approach of each towards the analysis of the human condition and the solution of its problems. The courses are designed not only for those who may wish to specialize in religion, but also as a cross-fertilization of general studies in the humanities, e.g. in history, literature and philosophy.

The program of study for a major in religion is to be planned in consultation with members of the department by the end of the sophomore year. Ten semester courses are required, distributed as follows:

- (i-ii) V1101, V1102: Introduction to the Study of Religion
- (iii-iv) Two semester courses in Western religions, one of which may be a seminar
- (v-vi) Two semester courses in Eastern religions, one of which may be a seminar
- (vii) One semester course in either Old or New Testament
- (viii) One semester course in Religion and Culture
- (ix) One additional seminar, or V1001x: Major Topics in the Study of Religion. (In cases of exceptional promise, the Reading Course 35 or 36 may be substituted)
- (x) W3501x: Seminar in Methodology. (In cases of exceptional promise, the Reading Course 35 or 36 may be substituted)

In addition, majors in religion are expected to take four semesters of course-work in related departments. The selection must be made in conjunction with the student's major adviser.

Majors in religion will be required in their last year to write a senior essay in conjunction with one of their seminars or, if they are deemed eligible for it, with the Reading Course, 35 or 36. The topic and development of the essay will be subject to departmental approval and supervision.



Students contemplating graduate work in religion are strongly advised to develop a reading knowledge of such languages as Greek, Latin, Hebrew, Arabic, Sanskrit, or Chinese, depending on the area of concentration. Courses in these languages will be accepted towards meeting the requirement of study in related subjects.

## General Introduction and Survey

**V1101x, V1102y (or  
V1102x, V1101y).**

### Introduction to the Study of Religion.

The phenomenology of religious experience and the historical forms of religious life. A survey of the presuppositions, data and documents of the religions of East and West. Autumn Term: religions of the West. Spring Term: religions of the East.

*Barnard:* Section III Autumn Term: Professor Pagels; Spring Term: Professor Snook. M W F 10.

*Columbia:* Section I Professor Hester. M W 2:10-3:25. Section II Instructor to be announced. Tu Th 2:10-3:25.

**V1102x, V1101y.** (For those wishing to begin the course with the study of Eastern religions.)

*Barnard:* Section V Instructor to be announced. Tu Th 10:35-11:50.

*Columbia:* Section IV Instructor to be announced. M W F 11-12:15.

### **V1001x or y. Major Topics in the Study of Religion.**

Introduction to the theory and practice of religion, East and West, with special attention to such topics as myth and ritual, reason and revelation, law and community, and mysticism.

*Barnard:* V1001x, Section I Professor Snook. Tu Th 2:10-3:25. V1001y, Section I Professor Gaster. Tu Th 9:10-10:25.

*Columbia:* V1001x, Section II Instructor to be announced. M W F 10. Section III Instructor to be announced. M W 5:40-6:55.

V1001y, Section II Instructor to be announced. M W F 10. Section III Professor Martin. Tu Th 10:35-11:50.

## Bible

### **W3201x. Introduction to the Old Testament.**

An introduction, by critical methods, to the religious history and literature of Israel in the Old Testament period, with illustration from Ancient Near Eastern sources.

*Barnard:* Section I Instructor to be announced. Tu Th 9:10-10:25.

*Columbia:* Section II Instructor to be announced. Tu Th 6:10-7:25.

### **V3202y. Introduction to the New Testament.**

An introduction, by critical methods, to the religious history and literature of the Christian movement in the New Testament period.

*Barnard:* Section I Professor Pagels. M W F 11.

*Columbia:* Section II Instructor to be announced. Tu Th 6:10-7:25.

### Archaeology- Religion

G4169x-G4170y.

#### Archaeology of the Bible.

The Palestinian sites which provide important information concerning the background of Biblical religion. Autumn Term: The Middle Bronze and Late Bronze ages. The period of the Judges. Spring Term: From the beginning of the monarchy to the conquest by Alexander the Great. Professor Teixidor. W 4:10-6.

### Western Religions Christianity

#### [14. From Paganism to Christianity.

Professor Pagels. Not given in 1972-73.]

#### [V3204x. Early Christianity in the Light of Classical Culture.

Not given in 1972-73.]

#### 15, 16. History of Religious Thought in the West.

[7]

15. Development of religious life and thought from the fourth to the fourteenth century. Emphasis on the relations between philosophical theology and mystical experience in Jewish, Christian, and Islamic traditions. 16. Representative religious thinkers in Christian and Jewish tradition from the fifteenth century to the present. Professor Pagels. Tu Th 10:35-11:50.

### History

#### Medieval Church History.

W4263x-W4264y.

The institutional, doctrinal, and social development of the medieval church from the conversion of Constantine to the fifteenth-century conciliar struggles. Professor Somerville. Tu Th 10.

W3224y.

#### Contemporary Religious Thinkers.

Analysis of the views of selected contemporary thinkers in Jewish, Catholic, and Protestant traditions on problems of religious belief. Professor Hester. M W 11-12:15.

W3232y.

#### Eastern Christian Thought.

The development of the religious mind in the Christian East since the time of the Greek Fathers. The Byzantine Church: institutions, theology, monasticism, religious art. The Byzantine spiritual and intellectual legacy in the Balkans and the Middle East. Russian religious thought. Mr. Valliere. Hours to be arranged.

[W3235y.

#### Catholic Thought after Trent; since Vatican II.

Not given in 1972-73.]

64.

#### (History 64). The History of Religion in America.

[6]

Religious thought and institutions from Colonial times to the present; their influence on American political and social history through the work of representative individuals. Professor Snook. Tu Th 9:10-10:25.

### Judaism

W3237x-W3238y.

#### History of Judaism.

History of the Jewish religion from its beginnings to contemporary manifestations in Israel and the United States. Autumn Term: Early background and formation of Judaism. Spring Term: From the Rabbinic period to the present. Professor Blau. Tu Th 4:10-5:25.

## W3214y. Introduction to Talmudic and Geonic Literature.

Documents in the history of post-Biblical literature. Selections from Mishna, Mekhilta, Midrash, Gemara, and Geonic literature. Professor Weiss. M W 1:10-2:25.

## Islam

### 56. Islam.

[6]

Pagan Arabia and the Judeo-Christian world before Islam. Mohammed and the Koran. Development of Islamic doctrine and its victory in Arabia. The first Caliphs and their conquests. Islam as a world religion. Internal conflicts and the rise of the schools. Islamic law and religious practice. Sects, heresies, and the rise of Sufi mysticism. The impact of modern Europe, reform movements, and contemporary developments. Professor Mish. Tu Th 9:10-10:25.

## Eastern Religions

### Hinduism

### 53. History of Hinduism.

[6]

A survey of the philosophies and history of Hinduism. The Vedic and Brahmanic periods. The Upanishads. Vedanta. Yoga. The darsanas. Modern developments. Professor Mish. Tu Th 9:10-10:25.

## Buddhism

### [54. History of Buddhism. Professor Mish. Not given in 1972-73.]

### V3252x. History of Buddhism.

Change and continuity in the development of Buddhist thought and institutions during the expansion of Buddhism from India to Tibet, China and Japan. Instructor to be announced. Tu Th 2:10-3:25.

## Chinese Religions

### W3253y. Chinese Religious Thought.

Native religions, philosophical movements, and Buddhist developments in China. Instructor to be announced. M W 2:10-3:25.

## Japanese Religions

### W3254x. Japanese Religious Thought.

Classical religions of Japan: Buddhism, Taoism and Shinto; recent "new religions." Professor Sadler. Tu Th 11-12:15.

## Ancient Near Eastern Religions

### [31. Ancient Near Eastern Religions.

Professor Gaster. Not given in 1972-73.]

### G6312y. Ancient Near Eastern Religions.

A comprehensive study of the religious ideas, practices, institutions and writings of the Egyptians, Mesopotamians, Hittites, Canaanites and Israelites. The texts are read in translation. *Open to religion majors*. Professor Gaster. Th 4:10-6.

## Primitive Religion

### [Anthropology Religion in Anthropological Perspective.

V3042y. Not given in 1972-73.]



**Religion  
and Culture  
(Theory and  
Functions  
of Religion)**

**25. Religion in Contemporary Society. [5]**

Religious groups in the contemporary world — the needs they serve, the strengths and weaknesses of traditional institutions in serving them, and the possibilities for new groups. Primary attention to the American situation. Professor Snook. M W F 2:10.

**26. Religion in Contemporary Culture. [9]**

An examination of recent developments in religious thought and expression, with emphasis on such topics as the impact of science and technology, the revision and reformulation of traditional dogma and doctrine, new currents in theology, creation of new myths, the trend to secularization, and revival of interest in the occult. Instructor to be announced. Tu Th 2:10-3:25.

**Religion-Sociology  
G4400x.**

**Sociology of Religion.**

A general introduction to the sociology of religion with particular emphasis on its relation to the sociology of knowledge. Professor Berger. Th 4:10-6.

**Seminars**

*Students who are not religion majors must obtain permission of the department.*

**W3501x.**

**Majors' Colloquium.**

Introduction to contemporary methods for understanding religion through case studies of groups from various traditions. Primarily for entering majors. Professor Snook. W 3:35-5:25.

**W3503x, W3504y.**

**Religious Thought.**

Either term may be taken separately.

**W3503x.**

**I. The World of Myth.**

The nature of myth, study of representative myths of East and West. The science of mythology. Myth today. Professor Gaster. Tu 3:35-5:25.

**II. Conversion.**

The phenomenon of religious conversion as it appears in the literature of Greco-Roman, medieval, and contemporary literature. Professor Teixidor. Tu 3:35-5:25.

**III. The Interior Journey: Autobiography of Religious Experience.**

Descriptions of religious experience in autobiographical and biographical sources, such as in the writings of Augustine, Anthony, Abelard, El Gazali, Abulafia, Teresa of Avila, John Bunyan, George Fox. Professor Pagels. Th 3:35-5:25.

**W3504y.**

**I. Mysticism.**

Selected mystical literature of the East and West, theistic and nontheistic. Professor Ulanov. M 2:10-4.

**II. Psychological and Psychoanalytic Interpretation of Religion.**

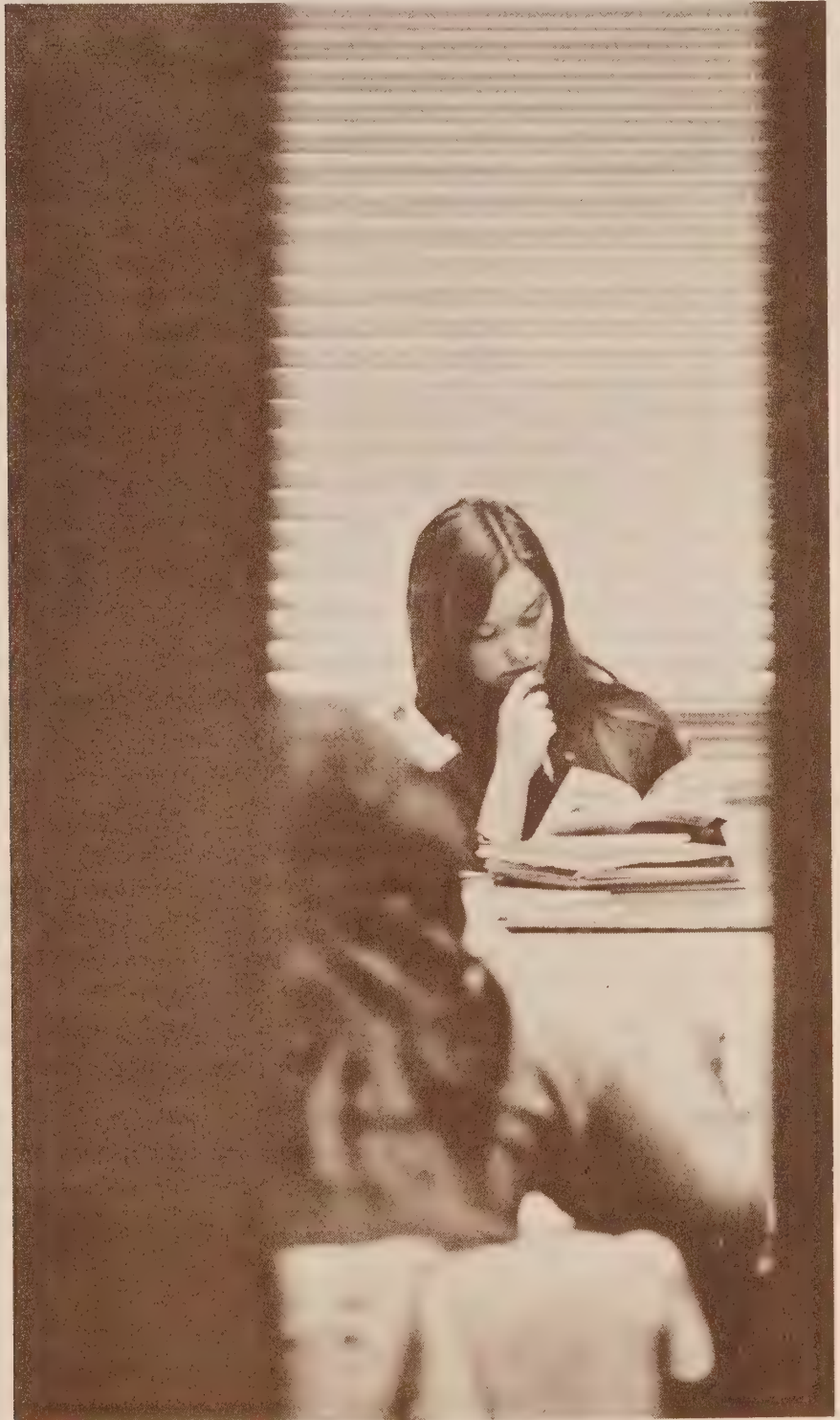
Psychological and psychoanalytic theories of religious thought and practice: Freud, Jung, Erikson, and others. Professor Snook. W 3:35-5:25.

## Reading Course

### 35, 36. Guided Reading and Research.

[0]

A program of study designed to give outstanding majors an opportunity to pursue independently a subject of their choosing. A written essay is required of students taking this program. Consultation periods to be arranged with adviser. Members of the Department.



<i>Professor</i>	Richard F. Gustafson <sup>1</sup> (Chairman; 226B Milbank Hall)
<i>Assistant Professor</i>	Marina Ledkovsky (Acting Chairman, Spring Term; 226E Milbank Hall)
<i>Associates</i>	Anatol K. Saprnow, Zoya Trifunovich
<i>Instructors</i>	Marianna Saprnow, Anya Luchow

Officers of Columbia University offering courses listed below:

<i>Professors</i>	Robert L. Belknap, William E. Harkins, Robert A. Maguire, Rufus W. Mathewson, Jr.
<i>Assistant Professor</i>	John Malmstad
<i>Associate</i>	Irene Balaksha
<i>Instructor</i>	Lynn Fisher

<sup>1</sup> Absent on leave, Spring Term.

The Russian Department offers courses in the language, literature, and culture of Russia. Besides a full four-year sequence in language work, there are specialized courses in major Russian authors and important periods in Russian literature and philosophy. Students should consult the department chairman in choosing language courses beyond the second year. For those who know no Russian, the department also gives a series of courses in Russian literature taught in English.

The major in Russian at Barnard is a liberal arts program designed to help the student obtain reasonable fluency in the spoken and written language, a reading command of Russian adequate for interpreting texts, and a comprehensive knowledge of Russian literature and culture, especially of the nineteenth and twentieth centuries. Students will be encouraged to take one year of Russian history and to select relevant courses in philosophy, art, music, and other literatures. The requisites to the major, in most cases to be completed before the junior year, are Russian V1202y (or its equivalent) and usually Russian V1225x, V1226y. The minimum for the major is 8 courses. No courses with readings exclusively in English may be included in the minimal major program. Normally majors are required to take Russian V3333x, V3334y and two fourth-year language courses. The senior requirement may be fulfilled by taking one or two semesters of the Senior Seminar or by writing a Senior Essay. For further information, consult the departmental chairman.

Foreign Language Requirement for the Degree: All students must take a placement examination before entrance. This examination tests the student's knowledge of grammar, her



comprehension of written and spoken Russian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others must complete Russian V1202y or any course beyond that level.

## Language Courses

### V1101x-V1102y. Elementary Course.

Grammar, reading, composition. Oral practice in small groups. Language analysis: Professor Malmstad, Mmes. Fisher (course chairman) and Luchow, Miss Balaksha, and staff. Section I M W F 10, Section II M W F 12, Section III M W F 1:10. Oral Practice: Mr. and Mrs. Saprnow and staff. Section I M W F 9, Section II M W F 11, Section III M W F 1:10, Section IV M W F 2:10. Other hours to be arranged.

### V1201x-V1202y. Intermediate Course.

Reading, composition, grammar review. Oral practice in small groups. Language laboratory work required. Prerequisite: Course V1102y (formerly Course 2) or the equivalent. Language analysis: Mmes. Fisher and Trifunovich (course chairman), Miss Balaksha, and staff. Section I M W F 10, Section II M W F 12, Section III M W F 1:10. Oral Practice: Mr. and Mrs. Saprnow and staff. Section I M W 10, Section II M W 11, Section III Tu Th 9, Section IV Tu Th 10, Section V Tu Th 11. Other hours to be arranged.

### V1211x-V1212y. Intermediate Course: Rapid Reading.

Extensive reading in non-fiction with primary stress on building speed and vocabulary. Prepares for advanced reading courses. Does not prepare for the Russian major or satisfy the language requirement. Prerequisite: Course V1202y (formerly Course 2) or the equivalent. Professor Maguire. M W F 2:10.

### V3331x, V3332y. Readings in Russian Literature.

Emphasis on conversation and composition. Reading and discussion of selected texts from nineteenth and twentieth-century Russian literature. Lectures, papers, and oral reports. Conducted entirely in Russian. Prerequisite: two years of Russian or permission of the instructor. Professor Ledkovsky. M W F 1:10. Oral practice (optional). Mr. and Mrs. Saprnow. Two hours to be arranged.

### [V3335x, V3336y. Advanced Language Course, Third Year. Not given in 1972-73.]

### V3443x, V3444y. Advanced Russian: Syntax and Style.

Autumn Term: Systematic study of problems in Russian syntax; written exercises, translations into Russian, and compositions. Spring Term: Discussion of different styles and levels of language, including word usage and idiomatic expressions; written exercises, analysis of texts, and compositions. Conducted entirely in Russian. The second term may be taken without the first. Prerequisite: three years of Russian or permission of the instructor. Mrs. Trifunovich. M W F 2:10.

### V3441x-V3442y. Oral and Written Russian: Advanced Course.

Selected twentieth-century Russian texts in philosophy, criticism, and literature provide a context for discussion. Lectures and reports on the modern period. Frequent compositions. Conducted entirely

in Russian. Recommended for students who wish to improve their active command of Russian. The second term may be taken without the first. Prerequisite: three years of Russian or permission of the instructor. Mr. Saprnow. M W 3:10. Third hour to be arranged.

**Literature Courses** For nonmajors, courses marked thus § will count toward the general college requirement.

**V1225x, V1226y. Survey of Russian Literature.**

Literature from Pushkin through the modern period, with emphasis on the prose masterpieces of the nineteenth century. The second term may be taken without the first. A knowledge of Russian is not required. V1225x: Professor Belknap. V1226y: Professor Malmstad. M W F 11.

**V1227x. The Works of Tolstoy.**

A close analysis of the major novels, shorter fiction, and selected essays, focusing on aesthetic, moral, social, and religious concerns. Some attention will be paid to Tolstoy's theories of non-resistance, anarchism, and the new consciousness in the context of their times and ours. A knowledge of Russian is not required. Professor Gustafson. Tu Th 11-12:15.

**V1228y. The Novels of Dostoevsky.**

An examination of the matter and manner of the major works. A knowledge of Russian is not required. Professor Mathewson. M W F 1:10.

**[V1229x. Russian Drama and Theater. Not given in 1972-73.]**

**§V333x, V3334y. Introduction to Russian Literature.**

Emphasis on reading and literary analysis. Close study of representative works of Russian literature from Pushkin to the modern period. Conducted mainly in Russian. Examinations in English. Prerequisite: a grade of B- or better in Course 4 or permission of the instructor. Professor Ledkovsky. M W F 10. Oral practice (optional). Mr. and Mrs. Saprnow. Two hours to be arranged.

**[V3454y. Russian Thought in the Nineteenth and Twentieth Centuries.**

Professor Gustafson. Not given in 1972-73.]

**§V3461y. Pushkin.**

A close study, in the original, of Pushkin's narrative, dramatic, and lyrical verse. Conducted mainly in Russian. Examinations in English. Prerequisite: three years of Russian or permission of the instructor. Professor Ledkovsky. M W F 12.

**§V3462x. Gogol.**

A close study, in the original, of the major works. Prerequisite: three years of Russian or permission of the instructor. Professor Malmstad. M W 12:45-2:00.

**§V3463x. Tolstoy.**

A close study, in the original, of Tolstoy's shorter fiction. Some attention will be paid to the development of his moral and aesthetic ideas. Prerequisite: three years of Russian or permission of the instructor. Professor Gustafson. Tu Th 1:10-2:25.

**[§V3464y. Dostoevsky. Professor Belknap. Not given in 1972-73.]**

[§V3465x. **Russian Poetry in the Nineteenth and Twentieth Centuries.**

Professor Gustafson. Not given in 1972-73.]

[§V3467x. **Twentieth-Century Prose Writers.**

Professor Maguire. Not given in 1972-73.]

**V3595x, V3596y. Seminar.**

Supervised individual research, culminating in a critical paper. The second term may be taken without the first. Prerequisite: senior standing and permission of the instructor. Professors Harkins, Maguire and staff. First meeting (x and y.) Th 3:10, both at 546 West 113th Street.

**Graduate Courses**

The following graduate course is given by a member of the Barnard Russian Department. It is open to undergraduates only by written permission of the departmental chairman and the instructor.

**G4103x. History of the Russian Language: Introductory Course.**

Professor Ledkovsky. M W 12.





*Professors* Barnard Barber<sup>2</sup> (Chairman; 410E Milbank Hall), Mirra Komarovsky,<sup>1</sup> Gladys Meyer

*Assistant Professors* Ethna Lehman (Acting Chairman, 1972-73), Julia Makarushka, Paul Ritterband

<sup>1</sup> Emeritus.

<sup>2</sup> Absent on leave, 1972-73.

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, religion, science, ideology, etc. The study of rural and urban communities, human relations in groups, social structure and personality are other areas of sociological interest. So also is the understanding of social change. Sociology is concerned not only with the normal functioning of social institutions but also with social problems such as racial and minority problems, industrial conflict, crime, and other areas of social disorganization. In studying these subjects, materials about American society are given primary emphasis. However, comparative materials from other societies, preliterate and more highly developed, are extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students can learn important facts about scientific method in general. A student majoring in sociology will be required to take: Course 1, 2 (preferably in the freshman year); 41 and 43 (both no later than fall of the junior year); 87-88 (in the senior year); and other courses selected in consultation with the major adviser.

There is no major examination. To graduate, a student must complete, to the satisfaction of her instructor in Soc. 87-88 and one other member of the department, a long paper involving some form of sociological research and analysis.

### 1, 2. Introduction to Sociology.

[8]

An introduction to sociological analysis with comparative materials from contemporary American and other societies. Autumn Term: Alternative models of sociological analysis. Major structures of society: kinship, socialization, stratification, formal and informal organization. Spring Term: Major structures of society continued: polity, economy, religion. Selected problems of social deviance and social control. Race and ethnic relations. Problems of social change. These courses must be taken in sequence, but not necessarily in the same year. Professor Lehman. Tu Th 11-11:50, and one additional hour F 10 or 11.

- 21. Poverty and the State.** [2]  
Conceptualizations of poverty and their effect on public policy. An analysis of tax supported welfare and anti-poverty programs. Comparative study of the philosophy, structure, and coverage in the U.S., England, and France. Open to juniors and seniors. Term paper or field work required. Prerequisite: Course 1, 2. Professor Meyer. M W F 10.
- 22. Introduction to Social Work.** [0]  
The growth of the profession. Intellectual influences which have shaped its development. The traditional fields of practice. The structure and function of voluntary agencies. Open to juniors and seniors. Prerequisite: two courses in social science other than history. Field work or a paper is required. Professor Meyer. M W F 10.
- 32. The Family.** [9]  
Kinship structures and processes in a cross-cultural perspective. Topics included: comparative kinship structures in selected contemporary and historical societies; kinship and socialization; the relations between kinship structure and other institutions (economy, polity, religion, stratification); kinship and social change; selected problems of kinship structures (divorce, desertion, illegitimacy). Prerequisite: Course 1, 2. Professor Lehman. Tu Th 2:10-3:25.
- 33. The Community.** [3]  
Analysis of variant forms of community structure. Evaluation of classical and current community research. Problems of community power and policy. Professor Makarushka. M W F 11.
- 34x. American Minorities.** [4]  
The composition and distribution of minority groups in the U.S. The structure of dominance; minority adaptations to dominance; the impact of minorities upon the Establishment; the politics of confrontation. Term paper required. Prerequisite: Course 1, 2. Professor Meyer. M W F 1:10.
- 36. Social Deviance.** [3]  
Various theoretical perspectives on the nature of deviance and social control. The analysis of selected contemporary problems, seen within the context of the wider society. Prerequisite: Course 1, 2. Professor Makarushka. M W F 11.
- 38. Sociology of Medicine.** [4]  
An analysis of illness and its management in contemporary societies. Topics include: Social definitions of health and illness, with emphasis on mental illness; the structure of the "sick" role; social factors in the etiology and distribution of illness; the social organization of the medical professions and of the hospital; and problems and prospects of health delivery systems. Professor Lehman. M W F 1:10.
- 39. Sociology of Education.** [9]  
The social organization of education in the United States, with emphasis upon primary and secondary schools. Topics include: The school as a complex organization; the classroom as a learning environment; social factors in academic aspirations and achievement; selected innovations in educational practices; and problems in the relations between the school and the community. Professor Lehman. Tu Th 2:10-3:25.

- [41. **Sociological Theory.**  
Professor Barber. Not given in 1972-73. Juniors may wait a year to take this course or take an equivalent Columbia course this year.]
- [42. **Colloquium in Sociological Theory.**  
Professor Barber. Not given in 1972-73.]
43. **Introduction to Sociological Research.** [7]  
The logic of social research: theories and their functions in inquiry; sociological concepts, their definition and measurement; criteria for evaluating claims to knowledge of social phenomena. The conduct of inquiry: conceptualization and the formulation of hypotheses; procedures and presuppositions of various research methods; observational procedures and problems of objectivity; the design of research and problems of causal inference. Various technical procedures: sampling designs and the selection of cases; methods of recording and processing data and the control of error; concept-indicator relations and index-construction; analysis of qualitative materials; methods of analyzing quantitative data. Prerequisite: Course 1, 2. Professor Ritterband. Tu Th 10:35-11:50.
- [44. **Colloquium in Research Design and Analysis.**  
Not given in 1972-73.]
45. **The Sociology of Religion.** [9]  
Social determinants and consequents of different types of religious organization, leadership, and response. Special emphasis is given to the relationship between religion and social order, disorder, and change. Prerequisite: Sociology 1, 2. Professor Ritterband. Tu Th 2:10-3:30.
- 46x. **Social Structure and Personality.** [4]  
Critical examination of the theory and research studies dealing with relations between social structure and personality. Prerequisite: Course 1, 2. Professor Makarushka. M W F 1:10.
- [47. **Social Movements.** Not given in 1972-73.]
48. **Black Americans in the Twentieth Century.** [5]  
Patterns of interaction between black Americans and white society from the founding of the NAACP to the death of Martin Luther King. Term paper required. Guest lecturers. Not open to freshmen. Professor Meyer. M W F 2:10.
- Interdepartmental Course 1.** **Female and Male: An Interdisciplinary Approach.** [7]  
Professors Komarovsky, Ehrenfeld, . . . . ., and Mates. May not be counted toward major. See page 65.
50. **Female and Male — A Sociological Perspective.** [7]  
Economic, demographic and cultural changes modifying the traditional conceptions of masculinity and femininity. Stresses in female-male relationships at various stages of the life cycle and in the family, occupational world and other institutional settings. Class and race differences in social roles of the sexes. Social policies leading to the alleviation of current problems. Not open to students who have taken Female and Male: An Interdisciplinary Approach. Registration limited to 50 students. Professor Komarovsky. Tu Th 10:35-11:25.



**87-88. Individual Projects for Seniors.****[0]**

Groups of 5-10 seniors will be assigned to instructors who will supervise the writing of long papers involving some form of sociological research and analysis. Apply to the Acting Chairman for assignment. Section A Professor Lehman. Section B Professor Makarushka. Section C Professor Meyer. Section D Professor Ritterband.

**W3668x-W3669y. American Political Behavior.**

Discussions of empirical studies of political behavior in modern society, especially political ideology, political behavior, parties, class, religion, ethnicity and the like. Mr. Kelley. Tu Th 2:10-3:25.

**W3666x. Political Sociology.**

The bearing of social and personality structure upon political behavior. Empirical studies of electorates, political elites, and parties. The social and personality requisities of democracy. Analysis of American and European political systems in a sociological perspective. Professor Hammond. Tu Th 11-12:15.



<i>Professor</i>	Margarita Ucelay <sup>1</sup>
<i>Associate Professor</i>	Mirella de Servodidio <sup>2</sup> (Chairman; 208 Milbank Hall)
<i>Assistant Professors</i>	María de Orti, Marcia Welles
<i>Associate</i>	Luz Castaños
<i>Instructors</i>	Randolph Pope, Vilma Bornemann

Officers of Columbia University offering courses listed below:

<i>Professor</i>	Karl-Ludwig Selig
<i>Assistant Professors</i>	Robert Brody, Linda Klein
<i>Instructor</i>	Luciana de Ames

<sup>1</sup> Absent on leave, Autumn Term.

<sup>2</sup> Absent on leave, Spring Term.

A major in Spanish is designed to enable the student to acquire ease and fluency in the written and spoken language and to develop an understanding of the cultural and literary traditions of Spain and the Hispanic Republics.

A student majoring in Spanish will be required to take Courses 13, 14; 17, 18; 20; 23; 25, 26; 31, 32.

Other fields: The following courses are recommended:

Anthropology V3029y; Classical Literature 32x; Art History 75, 76, 79, 88; French 21, 22; German 55, 56; History 16; Italian V3344x-V3342y; Philosophy 1; Religion V1101x. A major in Spanish must broaden her study of Spanish culture by relating it to other cultures which have influenced it or been influenced by it.

The major examination consists of a three-hour written examination on Spanish literature; a three-hour written examination on Hispanic civilization and Spanish-American literature; and a half-hour oral examination on literature and culture. All examinations are conducted in Spanish.

Foreign Language Requirement for the Degree: Freshmen who have had prior training in Spanish and who wish to satisfy the foreign language requirement in Spanish will be placed in the appropriate language courses on the basis of their CEEB scores, or, if such are not available, on the basis of proficiency tests taken before registration. Students having a sufficiently high score will automatically fulfill the requirement. All others may do so by completing course 4. Transfer students should consult the department.

## Language Courses

V1101x-V1102y.

### Elementary Full-Year Course.

Grammar, reading, conversation. May not be taken parallel to elementary Italian. Laboratory work is required. Miss Castaños,

Mrs. Bornemann, Professor Welles, Mrs. De Ames. Section 1a M Tu W Th F 9. Section 1b M Tu W Th F 9. Section 2a M Tu W Th F 10. Section 2b M Tu W Th F 10. Section 3 M Tu W Th F 11. Section 4 M Tu W Th F 12.

**2x. Intensive Review of Elementary Spanish. [0]**

A course for incoming students whose score on the placement test puts them between the beginning and intermediate level. Also intended for students of Spanish-American background who have some speaking knowledge of Spanish but insufficient formal training or grammatical foundation. Laboratory work is required. Professor Orti. M Tu W F 11.

**3, 4. Intermediate Course. [16]**

A rapid review of grammar and syntax; oral practice. Discussion and analysis of important works in Spanish and Spanish-American literatures. Work in the language laboratory is part of the course. Professor Orti, Mrs. Bornemann. Section I M W F 10. Section II M W F 11.

**3y. Intermediate Course, Part I. [4]**

Equivalent to Course 3, but given in the Spring Term. Miss Castaños. M W F 1:10.

**4x. Intermediate Course, Part II. [4]**

Equivalent to Course 4, but given in the Autumn Term. Mr. Pope. M W F 1:10.

**5. Spanish through Literary Analysis. [0]**

Readings in twentieth-century works as a basis for improving the comprehension of written and spoken Spanish. Textual analysis. Relationship of style and content. Weekly compositions. Prerequisite: Course 4 or 4x. Professor Welles. Tu Th 2:10-3:25.

**6. Problems of Spanish Grammar. [1]**

A study of morphology, structure, and syntax as a point of departure for questions related to New York City Spanish: i.e., why linguistic norms operate, what variants develop, to what extent New York City Spanish is peculiar and why. Recommended to students in Education, Linguistics, Urban Studies. Prerequisite: Satisfaction of foreign language requirement in Spanish. Mr. Pope. M W F 9.

**7. A Study of Spoken Spanish. [0]**

Field work for the purpose of investigating and recording on videotape the dialects and language variations which exist among New York's Spanish-speaking population. Recommended to students in Education, Linguistics, Urban Studies. Prerequisite: Permission of the instructor. Mr. Pope. Hours to be arranged.

[V1521x, V1522y. **Advanced Oral Spanish.** Not given in 1972-73.]

## Literature Courses

For nonmajors courses marked thus § will count toward the general college requirement. All Barnard courses are conducted entirely in Spanish except Course 12.

**§11. Significant Themes of Contemporary Latin-American and Spanish Literature.**

Analysis and discussion of selected works of contemporary interest. Prerequisite: Satisfaction of the foreign language requirement in



Spanish. Spanish 11 may be elected more than once for course credit providing sections vary.

**I. Revolutionary Poetry in Latin America. [3]**

Pablo Neruda, César Vallejo, Luis Palés Matos, Nicolás Guillén, Manuel del Cabral, Nicanor Parra, Ernesto Cardenal. Also, the Mexican corrido and new Cuban poetry. Mr. Pope. M W F 11.

**§11y. The equivalent of Spanish 11, but given in the spring.**

**I. Woman as Character and as Author. [2]**

A study of female characters portrayed by Galdós, Unamuno and García Lorca and of major Hispanic women writers including Santa Teresa, Sor Juana Inés de la Cruz, E. Pardo Bazán. Professor Welles. M W F 10.

**II. Reality and Fantasy in Contemporary Latin-American Narrative. [3]**

Jorge Luis Borges, Alejo Carpentier, Juan Rulfo, Gabriel García Márquez, Julio Cortázar. Professor Orti. M W F 11.

**12x. Contemporary Latin-American Narrative in Translation. [0]**

Reading and discussions of major works by Asturias, Borges, Fuentes, Cortázar, García Márquez, Rulfo and Vargas Llosa. Special emphasis on the social and structural problems involved. No knowledge of Spanish is required. Admission by written permission of the instructor. Professor Servodidio. Tu 2:10-4.

**[13. The Culture of Spain. Professor Ucelay. Not given in 1972-73.]**

**14. Spanish-American Culture. [2]**

The history and culture of Spanish America. A study of the origins and evolution of the Spanish-American character, tradition, and thought. The interrelationship of its history and arts. Lectures and written reports. The use of audio-visual materials will be stressed. Prerequisite: Courses 3, 4, or 5. Mr. Pope. M W F 10.

**C3333x-C3334y. Masterpieces of Spanish Literature (in Spanish).**

A systematic survey of the major works of the great writers of Spain and Spanish America. Readings, discussions, and brief reports. Section I M W F 9. Section II M W F 11.

**§17. Spanish Literature in the Middle Ages and the Early Renaissance. [7]**

Lectures and discussions in Spanish on Spanish Literature from its origins to the beginning of the sixteenth century. Prerequisite: Satisfaction of the foreign language requirement in Spanish. Professor Servodidio. Tu Th 10:35-11:50.

**§18. Literature of the Golden Age. [3]**

A study of the poetry, theater and narrative of the Golden Age. Lectures and discussion of principal authors including Garcilaso, the mystic poets, Cervantes, Lope de Vega and Calderón. Prerequisite: Satisfaction of the foreign language requirement in Spanish. Professor Welles. M W F 11.

**§20. Don Quijote. [7]**

Close analysis and discussion of Cervantes' masterpiece. A study of the principal critical works as outside reading. Prerequisite: Spanish 17, 18 or written permission of the instructor. Professor Ucelay. Tu Th 10:35-11:50.

- [§22. **The Spanish Drama.** Professor Ucelay. Not given in 1972-73.]
- §23y. **Nineteenth Century Literature in Spain.** [9]  
 Romantic drama and poetry; the realistic novel with special emphasis on Galdós. Prerequisite: Courses 17, 18 or written permission of the instructor. Professor Ucelay. Tu Th 2:10-3:25.
- §25. **Contemporary Spanish Literature, Part I.** [4]  
 Characteristics, technique, and style of the writers of the generation of '98 from Unamuno to Ortega y Gasset. (Baroja, Valle-Inclán, Azorín, Benavente, A Machado, Juan Ramón Jiménez will be specifically studied.) One term paper. Prerequisite: Courses 17, 18 or written permission of the instructor. Professor Orti. M W F 1:10.
- §26. **Contemporary Spanish Literature, Part II.** [4]  
 The ideas, trends, and new literary concepts from García Lorca and the generation of '27 to the present day writers. One term paper. Prerequisite: Courses 25, 17, 18 or written permission of the instructor. Professor Orti. M W F 1:10.
- [§31-32. **Spanish-American Literature.**  
 Professor Servodidio. Not given in 1972-73.]
- C3711x-C3712y. **Spanish-American Literature (in Spanish).**  
 C3711x: A survey of literary currents in Spanish America. Readings, discussions, and individual reports. Professor Brody. C3712y: Contemporary fiction in Spanish America with special emphasis on Julio Cortázar and Carlos Fuentes. Professor Klein. M W F 12.
33. **Senior Seminar.** [0]  
 Intended to supplement or coordinate the work done in other courses and to introduce the student to the methods of scholarly research. Open only to seniors. Professor Servodidio. Hours to be arranged.
- C3810x. **Don Quixote in Translation.**  
 A critical examination of Don Quixote (in translation). In addition, particular consideration of various kinds of novels (pastoral, sentimental, picaresque, and novels of chivalry) in their relationship to Don Quixote and the history and development of the genre. Professor Selig. Tu Th 11-12:15.
- V3811x-V3812y. **Latin-American Seminar.**  
 A seminar which examines the mainsprings of civilization and cultural change in Latin America. Designed for senior majors in Latin-American areas. Autumn Term: Professors Brody and Klein. Spring Term: Mr. Pope.

Professional and graduate training is offered at various schools in Columbia University, and their Bulletins are available in the office of the Secretary of Columbia University. Information and advice concerning advanced work in the University may be obtained from class and major advisers at Barnard.

The requirements for admission vary and must be checked by reference to current regulations and by inquiry to the Office of University Admissions or to the specific school. In some instances a student is eligible after two or three years of college study; in others a Bachelor's degree is essential.

Professional and graduate schools of the University include the School of Architecture; the School of the Arts; the Graduate School of Business; the School of Dental and Oral Surgery; the School of Engineering and Applied Science; the Graduate School of Arts and Sciences; the School of International Affairs; the Graduate School of Journalism; the School of Law; the School of Library Service; the Faculty of Medicine (Nursing, Occupational Therapy, Physical Therapy, Public Health); the School of Social Work; Teachers College; and Union Theological Seminary.

### **SCHOOLS REQUIRING THE BACHELOR'S DEGREE**

**Business** Programs leading to the MBA degree and the Ph.D. degree in business are available on a full-time, day study basis. In addition to the areas available at the Business School, special concentration areas can be arranged in conjunction with other graduate faculties. Combined degree programs at the master's level are offered with the Schools of Journalism, Law, Architecture, and International Affairs, and at the doctoral level with Teachers College.

Through the general approach of its core courses and study in one of the fields of business and management, students prepare for diversified managerial positions.

The Columbia Business School operates on a trimester program of instruction. A student may begin studies during the Summer, Autumn, or Spring Term and may complete the degree requirements in four consecutive terms, or may elect not to attend the school for any one four-month term for purposes of employment or vacation, and return to complete the four-term requirements.



Qualified seniors may inquire into cross registration. Business School courses completed in excess of the undergraduate degree requirements may be applied toward MBA credit to a maximum of five courses.

For further information, please write to the Graduate School of Business Admissions Office in Uris Hall.

**International  
Affairs and  
Regional Institutes**

The purpose of the School of International Affairs is to provide a course of instruction which will equip a limited number of students for staff and administrative posts in international affairs. Emphasis is upon the acquisition of an adequate knowledge and understanding of the field generally, and a specialized knowledge of one area of the world. The degree of Master of International Affairs will be awarded upon the satisfactory completion of the two-year course.

The basic requirements for admission are a superior undergraduate record and a Bachelor's degree from an approved institution. Students in the School of International Affairs as well as in other graduate departments of the University may elect to take an area concentration in one of the several area institutes: East Asian Institute, Near and Middle East Institute, the Institute on East Central Europe, Russian Institute, European Institute, the Institute of African Studies, the Institute of Latin American Studies, and the Southern Asia Institute.

Further information may be obtained from the Office of University Admissions.

**Journalism**

The Graduate School of Journalism offers a one-year course leading to the degree of Master of Science. A Bachelor's degree is required for admission to this school. Undergraduate work should include, wherever possible, courses in English, government of the United States, history since 1914, economics, sociology, and psychology. The school requires a strong liberal arts background.

**Law**

The School of Law offers a three-year course of study leading to the degree of Doctor of Jurisprudence. Although there is no required prelaw curriculum, students are advised to take courses in English, American political history, English political and constitutional history, economics, and in logic or philosophy or both.

Admission is on a competitive basis. All applicants are required to take the Law School Admission Test (LSAT) and register with the Law School Data Assembly Service (LSDAS). The test will be given in many locations throughout the United States several times during the academic year. For further information write to the Educational Testing Service, Princeton, New Jersey 08540.

**Occupational  
Therapy**

The Faculty of Medicine offers a graduate program leading to a Master of Science degree in occupational therapy which requires for admission an acceptable baccalaureate degree including stated prerequisites in English, biology, psychology and sociology. The program of study includes sixty semester credits and eight months of clinical experience.

For additional information write to the Director, Occupational Therapy Courses, College of Physicians and Surgeons, 630 West 168th Street.

**Public Health**

The Faculty of Medicine offers programs of professional study at the School of Public Health leading to a Master of Science degree in Administrative Medicine, Biostatistics, Epidemiology, Hospital Administration, and Parasitology. A Bachelor's degree from an approved college and evidence of satisfactory scientific training are necessary for admission. All candidates must spend at least one academic year at the school. An administrative residency of one calendar year's duration is required of all hospital administration students. A calendar year of administrative residency, or an equivalent experience, is required of all candidates for the degree in administrative medicine.

**School of  
the Arts**

The School of the Arts offers to graduates with a Bachelor's degree from Columbia University, or from another institution of acceptable standing, a two-year course of study leading to the degree of Master of Fine Arts in painting and sculpture, film, and writing.

A bulletin describing these graduate courses, and also undergraduate courses, is available at the Dean's Office, School of the Arts, 617 Dodge.

**Social Work**

The Columbia University School of Social Work offers a two-year course of study leading to the degree of Master of Science.

An advanced curriculum leading to the degree of Doctor of Social Welfare is offered to graduates of schools of social work.

The School is an accredited member of the Council on Social Work Education. The curriculum includes a sequence of background and methods courses, supervised field work in social work agencies, and research to prepare students for professional practice in social work. A Bachelor's degree is required for admission. The undergraduate program of study must include a minimum of sixteen courses of liberal arts studies, with emphasis in the direction of the social sciences. A limited number of applicants may be considered for the M.S. program upon completion of three years of full-time undergraduate study. Applications should be filed in January of the junior year.

Admission is on a selective basis. The announcement, giving information about the curriculum and dates for filing applications, may be obtained from the Director of Admissions, 622 West 113th Street, New York, N.Y. 10025.

## **Union Theological Seminary**

Union Theological Seminary offers courses of study leading to the degree of Master of Divinity, Master of Arts in Education and Theological Studies, Master of Arts in the fields of Christian Education, Biblical Literature and Comparative Study of Religions, and Master of Sacred Music. The Seminary also participates in joint programs leading to the degrees of Master of Arts and Doctor of Philosophy in the field of religion at Columbia University.

A Bachelor's degree is required for admission. Those applicants are selected who in the light of expressed purpose, personality, and record of scholarship give especial promise of usefulness in some form of Christian ministry.

Further information may be obtained from the Office of the Registrar, 3401 Broadway, New York, N.Y. 10027.

## **SCHOOLS NOT REQUIRING THE BACHELOR'S DEGREE**

Admission may be gained to the following professional schools without a Bachelor's degree.

### **Architecture**

The School of Architecture offers courses of study leading to the degree of Bachelor of Architecture. Under normal conditions, the degree may be obtained in four years.



The minimum course requirement for admission to the School is completion of 16 courses distributed as follows: 4 in English, 4 in a modern foreign language (preferably French or German), 2 in differential and integral calculus, 2 in physics, 2 in European or world history, and 2 in either economics, government, or sociology. The courses offered by the School are described in detail in the Bulletin of the School of Architecture. A copy may be obtained from the Office of Architecture Admissions, 280-3510. Preference is given to applicants who hold an undergraduate degree.

**Dental Hygiene**

The Division of Dental Hygiene, School of Dental and Oral Surgery, offers a junior-senior course of study leading to a Bachelor of Science in Dental Hygiene. The minimum requirements for admission are 60 credits in liberal arts and science. Included in the 60 credits should be two terms of chemistry and English; one term of physics, sociology and psychology. Graduates are qualified for licensing examinations in all states.

Further information may be obtained from the Dental Hygiene Admissions Office, Room 7-204, School of Dental and Oral Surgery.

**Dental and Oral Surgery**

The School of Dental and Oral Surgery offers a four year course of study leading to the degree of Doctor of Dental Surgery. Required preparation at Barnard College is a minimum of three years including one academic year or its equivalent of the following courses: English composition and literature, inorganic chemistry, organic chemistry, physics and biology.

The admissions Committee of the School of Dental and Oral Surgery will consider carefully the entire predental record and select the most promising candidates.

**Engineering and Applied Science**

The School of Engineering and Applied Science offers undergraduate programs in the professional branches of engineering and in the applied sciences.

The first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a minimum of courses is taken in the engineering school. After successful completion of the first three years' work, the student applies for

admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken.

Although the above plan is educationally desirable, it is possible in some cases for the exceptional student to complete the prescribed subjects with two years in Barnard College and two years in the School of Engineering and Applied Science. This program leads only to the degree of Bachelor of Science.

Students interested in engineering or applied science should offer at entrance to Barnard mathematics through trigonometry, physics, and, if possible, chemistry, in addition to the general admission requirements. For details the Office of Admissions of the School of Engineering and Applied Science should be consulted.

Further information about the engineering program and the advanced degrees may be obtained from the Bulletin of the School.

### **Medicine**

The College of Physicians and Surgeons offers a four-year course of study leading to the degree of Doctor of Medicine. The preparatory work at Barnard must include the requirements as follows: at least one academic year of English, physics, biological sciences, general chemistry, and organic chemistry.

Before admission to the medical school, the entire premedical record of each applicant is carefully examined in order that those who are adjudged the most promising candidates for the profession may be selected. While the minimum requirement for admission is three full academic years of college work, the complete college course of four years is considered the most desirable preparation.

### **Nursing**

Columbia University offers a course in professional nursing leading to the degree of Bachelor of Science. The program is conducted on the Medical Center campus. The minimum requirement for admission is two years of college work. The program covers two academic years and two summer sessions. A special program is offered for students who hold a Bachelor's degree. This program is two academic years and one summer session in length. Preparatory work should comprise courses in chemistry, biological sciences, psychology, and sociology. Acceptance of a candidate is based on grounds of character and health as well as fulfillment of the academic requirements.

**Occupational  
Therapy**

The Faculty of Medicine offers a program leading to a Bachelor of Science degree in occupational therapy. Requirements for admission include two years of acceptable college work including stated prerequisites in English, biology, psychology, and sociology. The program entails two academic years and nine months of clinical experience.

For additional information write to the Director, Occupational Therapy Courses, College of Physicians and Surgeons, 630 West 168th Street.

**Physical Therapy**

The Faculty of Medicine offers a program of professional study in physical therapy which leads to the Bachelor of Science degree. The candidate for admission must present two years of acceptable college work, including courses in biological sciences, physics, English, and psychology. Requirements for admission to the licensure examination for physical therapists in the State of New York include two courses each in biology, chemistry, and physics. Students who plan to practice in New York State should accordingly fulfill the remainder of these requirements.

The course of professional study covers 21 calendar months, including two academic years of didactic instruction and clinical practice, and a two-month clerkship following the junior year of study.

A graduate program of one calendar year is offered for students already possessing a Bachelor of Arts or Bachelor of Science degree, depending on previous preparation in biological science, physics, English, and social science. The Faculty of Medicine awards a certificate upon satisfactory completion of this course.



Barnard does not charge its students the full cost of their instruction, since its Trustees believe that admission to college should be based on intellectual ability and promise rather than financial resources. Student payments meet only two-thirds of the total educational expense; the balance must be obtained each year from investment income and from gifts of the Associate Alumnae and other friends of the College. By continuous efforts to increase annual gifts and endowment, and by economy of operation, the College keeps charges as low as possible without sacrificing the quality of its instruction.

### **Schedule of Fees and Charges**

The following fees are required from all students for each autumn or spring term:

#### **Tuition**

Full program	\$1,310.00
Partial program (less than 3 courses, per course)	327.50

Registration	10.00
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Health Service	40.00
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Undergraduate Association (Will be paid to Undergraduate Associations on behalf of each student)	15.00
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The following fees are required from all students occupying College housing facilities for each autumn or spring term:

#### **Reid, Brooks and Hewitt Halls**

Room — Single	350.00
Double	325.00
Board	262.50

#### **600, 616 and 620 West 116th Street**

Room — Single	375.00
Double	350.00

#### **Plimpton Hall**

Room — Single	395.00
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The following fees will be charged where applicable:

Application for admission	15.00
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Registration in absentia	15.00
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Physical education — part-time students	5.00
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Late registration for academic work and/or physical education	15.00
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Orientation fee (All students entering Barnard College for the first time)	25.00
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Senior fee (All graduating seniors)	25.00
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Deferred and special examinations, payable in each case before the examination is held:	
For each deferred examination	10.00
For each special examination	10.00
(A special or deferred examination is one taken at any time other than the conclusion of a course)	
Late payment fee where applicable	15.00
Late filing of:	
Tentative program cards	10.00
Final Program Cards	15.00
Application for deferred examination	5.00
Application for language placement test	5.00

Under certain circumstances, course or departmental charges may be made. Please see announcements of departmental offerings and special requirements for courses in the University.

**Deposits** All students: In order to obtain a place on the college roll for the ensuing academic year, students who are currently enrolled must pay a deposit of \$100 toward tuition and fee charges on or before *May 1*. Applicants for admission will be billed for the deposit at the time they signify their acceptance of admission to the College. One-half of this deposit (\$50) will be applied to the charges of the Autumn Term and the remainder to the charges of the Spring Term. The deposit toward the term's charges is forfeited unless the Bursar is notified of a change in plans no later than *July 3* for the Autumn Term or *November 1* for the Spring Term.

Resident students and nonresidents who pay housing fees through the College: a room deposit of \$50 is payable by *May 1* to secure the assignment of a room for the following academic year. One-half of this deposit (\$25) will be applied to the charges of the Autumn Term and the remainder to the charges of the Spring Term. The deposit toward the term's charges is forfeited unless the Bursar is notified of a change in plans no later than *July 3* for the Autumn Term or *November 1* for the Spring Term.

**Payment of Charges and Fees** All charges and fees are payable semiannually, in advance. No reduction is made for late registration. Registration is not complete until all charges and fees are paid. Failure to complete registration (including the payment of all charges and fees) on time imposes automatically the statutory charge of \$15 for late registration.

Payment of charges and fees (accompanied by copy of the bill) must be made by *August 10* for the Autumn Term and by *December 15* for the Spring Term. If payments are mailed, envelopes must be postmarked not later than *August 10* or *December 15* respectively. Students admitted for the Autumn Term after *August 1* must pay their bills before the first day of registration. A late payment fee of \$15 will be charged on all payments made or postmarked after midnight on the above dates.

Rooms will not be held for students whose total bills are not paid by *August 10*.

All charges and fees are subject to change at any time at the discretion of the Trustees.

The privileges of the College, including examinations, are not available to any student who is delinquent in the payment of charges or fees. When bills are not paid by their due date or satisfactory arrangements for their payment are not made with the Bursar, the student will be required to withdraw from the College. Financial obligations include not only tuition, fees, and residence charges (if any), but fines due the libraries and other charges which may be incurred.

Checks or money orders in payment of all charges and fees must be in U.S. funds (at a U.S. bank) payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due.

(The application fee of \$15, payable when application for admission is filed, is not credited on the bill and is never refunded.)

NOTE: Holders of a New York State Regents Scholarship and/or Scholar Incentive Award may deduct the amount received in 1971-72 or the amount estimated by the Financial Aid Office provided they submit a copy of the certified or registered mail receipt indicating they have filed an application for 1972-73.

### **Deferred Payment**

Many parents prefer to meet academic expenses out of monthly income, rather than in large cash payments. Barnard College has no established plan for installment payments. The cost of operating such a plan and the fact that the College operates with a limited administrative staff preclude the possibility of such an arrangement. The College has arranged to participate in the Insured Tuition Payment Plan of Boston which offers two



convenient payment programs for parents who desire to budget the annual cost in monthly installments. Both programs include insurance protection which covers the balance of the cost of the entire educational program in the event of the death or disability of the insured parent. A brochure describing it will be sent to all parents in the spring of 1972. The College will also continue to participate in the College Aid Plan. Material concerning it will be sent to all incoming students during the spring of 1972. Others can obtain information from the Bursar's Office.

The College will also accept payment made through any bank or trust company or recognized financing agency provided payments are made on or before *August 10* for the Autumn Term or *December 15* for the Spring Term.

**Adjustment of  
Fees and Refunds**

For changing program of study: If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration in her program was made by *September 20* in the Autumn Term and by *February 2* in the Spring Term. If the new program calls for higher tuition, the student must pay the difference at the time she registers the program change.

For withdrawal: If a student withdraws from College after *July 3* for the Autumn Term and *November 1* for the Spring Term, the following amount of tuition and residence fees paid will not be refunded:

Tuition and fees	\$50.00
Residence fees	25.00

Up to and including the first Friday of the term (see the College Calendar), the remaining tuition, \$1,325, which the student has paid will be refunded in full. After the first Friday of the term, twenty per cent of the remaining tuition, \$265, will be retained by the College for each additional week, or part of a week, of the semester up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

Up to and including the first Friday of the term (see the College Calendar), the remaining residence fees that the student has paid will be refunded in full. After the first Friday of the term, ten per cent of the remaining residence fees will be retained by the College for each week, or part of a week, up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

Any refund to a resident student who moves from the residence halls while still a student in the College will be determined by the Director of Residence and Housing.

The refund will be based on the same schedule as refunds to students who withdraw from the College and will not be payable until and unless the room is rented for the remainder of the semester.

If a student has made only partial payment on her tuition or room and board, the amount of unpaid balance for each will be deducted from any withdrawal credit that is allowed. If the unpaid balance is larger than the credit allowed, the student must pay the difference.

Refunds: No refunds for board will be made for students who wish to take meals off-campus. Barnard is nondenominational and no provision can be made for special diets.

**Other Expenses**

The following information may be helpful in budgeting expenses not payable to the College: \$23 for a gymnasium costume; a minimum of \$150 per year for textbooks; \$275 to cover weekend meals when the dining hall in Brooks-Hewitt-Reid is closed; for students in "600," "616," "620," and Plimpton approximately \$475 for food; for commuting and nonresident students approximately \$175 for lunches at the College; approximately \$350 for clothing, laundry, recreation and miscellaneous expenses. Individual estimates of expense should also include allowances for transportation for nonresident and commuter students, or two round-trip fares from home to college for resident students.

**Student Health Service**

Campus medical service is available to all Barnard students and is covered by the Health Service fee included in the comprehensive charge payable each term. This service is not available during college vacations.

Medical examinations are required of all sophomores and seniors. (Students are not permitted to register for the succeeding term until the required examination is complete.) The final date for completion of the examination by the College Physician is *November 17* for seniors; *April 15* for sophomores.

Students are entitled to the following services:

- 1) an unlimited number of visits to the staff physicians
- 2) all indicated diagnostic laboratory and x-ray studies

- 3) all medication ordered by the staff physician
- 4) ten days of free care per term by the staff at the Columbia University Infirmary and four days of free care per term by the house staff on the wards of St. Luke's Hospital
- 5) a single consultation visit with a specialist at the Columbia Health Service
- 6) management of minor surgical conditions by the Columbia Health Service staff

The following services are not provided:

- 1) home visits
- 2) consultations when the College is not in session
- 3) ambulance transportation
- 4) coverage for chronic medical conditions which predate matriculation
- 5) dental care
- 6) eye examinations and eyeglass prescriptions
- 7) laboratory tests and x-rays ordered by outside physicians
- 8) written excuses for gym and academic departments

#### **Insurance for Foreign Students**

Foreign students who are not residing in the United States with members of their families are required to participate in the Accident and Sickness Insurance Plan. The Accident and Sickness Insurance Plan fee of approximately \$43.20 a calendar year is payable to the American International Life Insurance Co. of New York. Full information concerning this policy will be mailed to the student with her college bill.

#### **Hospital Insurance**

All students are eligible for membership in the Associated Hospital-United Medical Service for twelve consecutive months beginning October 1 at a cost of approximately \$103. See the Bursar's Office for complete details.

#### **Safekeeping of Students' Funds**

Barnard College is not prepared to receive funds from students for safekeeping nor to cash personal checks or travelers checks. To cover their immediate expenses, students should provide themselves with travelers checks, which can be cashed at a local bank, or money orders, which the Columbia University Station of the U.S. Post Office will cash upon presentation of a validated ID card. A validated ID card is issued after a student registers at the beginning of each term.



It is also possible to open a checking, special checking, or savings account at one of the local banks:

Chemical Bank

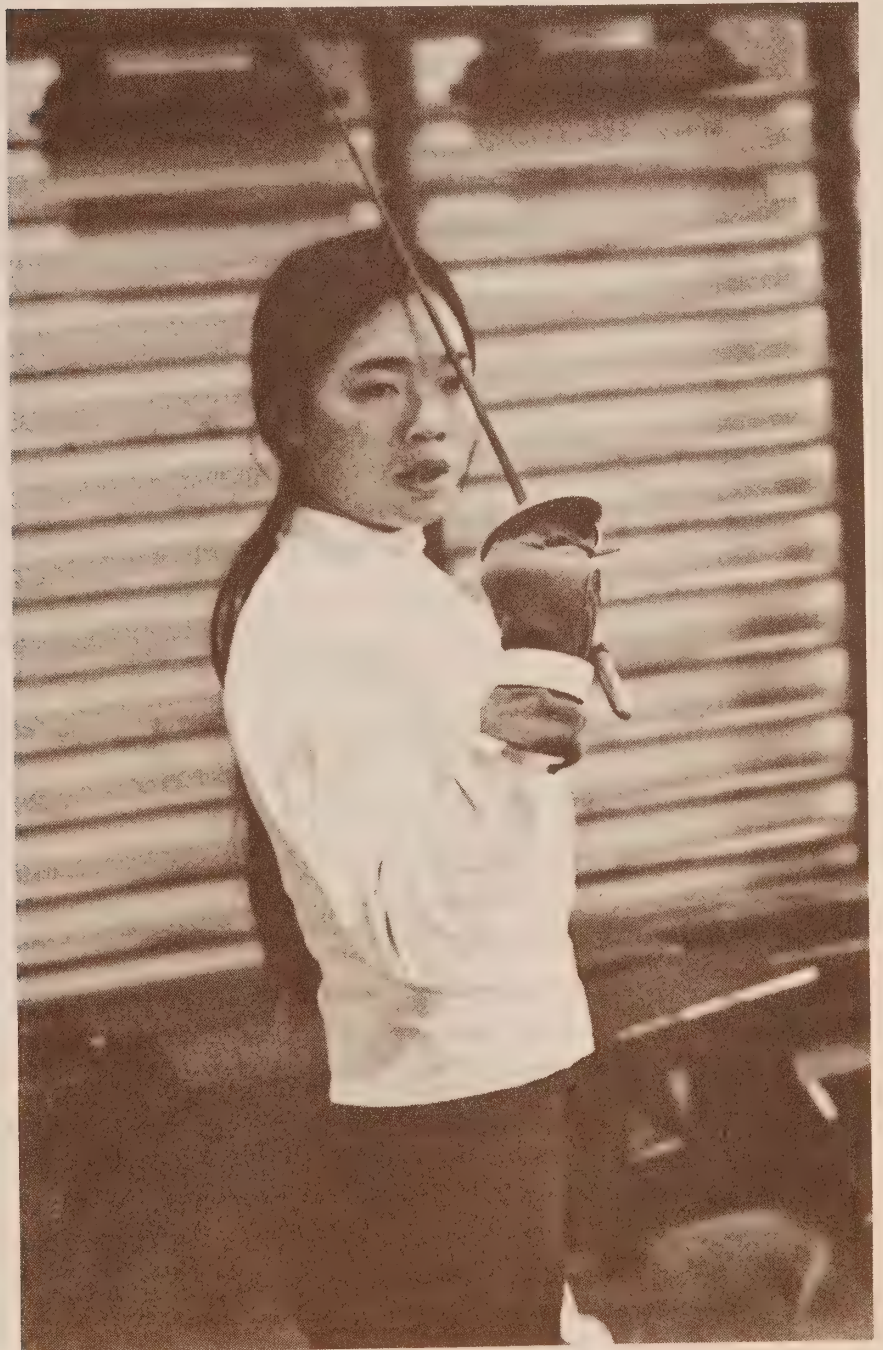
Broadway and 113th Street, New York, N.Y. 10025

First National City Bank of New York

Broadway and 111th Street, New York, N.Y. 10025

American Savings Bank

Broadway and 111th Street, New York, N.Y. 10025



Insofar as possible, Barnard helps qualified students who have financial need. Financial aid from the College consists primarily of grants and loans, although opportunities for part-time employment are also provided (See Office of Placement and Career Planning, pages 48-49). In addition to providing financial aid from its own funds, i.e. gifts, endowment and general income, Barnard participates in the following Federal programs: the Educational Opportunity Grant program, the National Defense Student Loan program, and the College Work-Study program. Federal funds are administered by the College in accordance with government regulations and the College's general policies relating to financial aid. To supplement the above mentioned financial aid sources students are urged to investigate state loan and scholarship programs and college tuition financing plans offered by local banks and insurance companies.

### **Annual Awards**

Loans or combination grant-and-loan awards are made by the Committee on Financial Aid to full-time students who have financial need and have demonstrated academic competence. *The College shall be the sole judge of the financial aid to be granted, and may at any time withdraw or discontinue such aid.* The amount of the award depends on the student's financial need and is determined from the following:

1. The amount of the parents' contribution as estimated from information given on the Parents' Confidential Statement of the College Scholarship Service.
2. The amount available from other sources, such as the New York State Regents Scholarships and New York State Scholar Incentive Awards.
3. The student's pre-college savings.
4. The student's summer earnings and/or earnings from part-time work during the academic year.

The basic budget used to compute financial need includes, in addition to the college fees, allowances for other expenses as described on page 221.

*Awards are for one year only.* Students in good standing are eligible to apply for assistance in subsequent years.

### **Application Procedures**

**Entering Students:** A Barnard College application for financial aid may be obtained from the Admissions Office. It should be

completed and returned to the Office of Financial Aid on or before January 1.

Each financial aid applicant must also file a Parents' Confidential Statement (PCS) with the College Scholarship Service not later than January 1 of her senior year in high school. The PCS should be obtained from the high school counselor. The College Scholarship Service acts as a central filing and distributing agent. Photostatic copies of the completed statements will be sent to the colleges named by the applicant.

Students applying for admission under the Early Decision Plan who wish to apply for financial aid must complete and file the necessary forms by October 15.

Each applicant must complete and file both forms as instructed above in order to be considered for financial aid. Each bona fide applicant is eligible for consideration for all categories of aid administered by the College. Applicants are notified of awards at the time they receive their notice of admission to the College.

If an entering student applies to more than one college in the Seven College Conference (Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley), her application is reviewed by the appropriate members of the Conference in order that awards may be made on a noncompetitive basis. Amounts vary only according to the difference in fees and, whenever possible, are equivalent in value.

**Students Enrolled at Barnard:** Any Barnard student may apply for financial aid for the following academic year. *Students already receiving financial aid from Barnard must apply each year for a renewal award.*

Each applicant must file a Barnard College application for financial aid and a Parents' Confidential Statement. These forms are available in the Office of Financial Aid beginning on December 1. Applications must be filed on or before February 15. Applicants will be notified of their awards by July 1.

### **New York State Scholar Incentive Awards**

A student who has been a legal resident of New York State for the preceding year may be entitled to a Scholar Incentive Award (\$50 to \$300) per term while she is registered as a full-time degree candidate. The amount of this award is based upon the net taxable balance of her income and the income of those responsible for her support, as reported on the New York State Income Tax Return for the previous year. Application for



awards must be made annually and should be filed before July 1 for each academic year. Further information and application forms may be obtained from Regents Examination and Scholarship Center, 800 North Pearl Street, Albany, N.Y. 12204.

**New York Regents  
College  
Scholarships**

Each year the Regents of the University of the State of New York award scholarships to full-time degree candidates who are legal residents of New York State. These awards are based on the Regents Scholarship Examination and are open to students in any approved college or university in the state. Awards range between \$125 to \$500 a term, depending upon need. High school students can get further information from their counselors at school. New York Regents Scholarships are not automatically renewed; they must be reapplied for annually.

**Loan Funds**

There are various loan funds at Barnard available for assignment to students as a part of their financial aid.

*Barnard College  
Loans*

The Associate Alumnae of Barnard College maintain a Student Loan Fund from which loans to seniors are made. In 1950, through a gift of \$26,000 from Mr. and Mrs. Gerard Swope and Miss Henrietta Swope, an additional fund known as the Swope Loan Fund was established. In the spring of 1960, the Barnard College Loan Fund was established by the Board of Trustees to help meet the increased need of students. In 1961, the Pauline Hirschfeld Loan Fund was established with a bequest of \$5,000 from Pauline Steinberg Hirschfeld, '08. In 1966 two new loan funds were established: the Barnard College Club of Cleveland Loan Fund with gifts of \$1,276, to be used with preference for a student from the Northeastern Ohio area; and the Ann Susan Becker Memorial Loan Fund with gifts of \$1,530 from her family. In 1968 the Adelaide Le Clercq Loan Fund was established with a gift of \$3,000 from Adelaide M. Hart, '06, to be used with preference for a student majoring in music or French. In 1971 the Gertrude C. Hitchcock Loan Fund was established with \$100,000 of the bequest of Gertrude C. Hitchcock.

These funds are administered by the Committee on Financial Aid. Loans are regularly assigned as part of a student's financial aid award. No interest is charged while the student is in college. Payments on principal may be made at any time before graduation. Principal of indebtedness is repaid in semiannual installments of \$150 each after the student ceases to be in full-time attendance at Barnard College. Interest is charged from

the first day of the month after the student ceases to be in full-time attendance at Barnard College at the rate of three per cent per annum on the unpaid balance.

The Morris Morgenstern Student Loan Fund of \$5,000 was established in 1959. Interest-free loans not to exceed \$500 are granted upon application to the Office of Financial Aid to any deserving undergraduates, other than freshmen, who are in need of temporary emergency assistance. Loans are granted for short terms, no longer than a year from the date of issue.

The Tudor Foundation Student Loan Fund of \$5,000 was established in 1967. Interest-free loans not to exceed \$1,000 in any one academic year are granted upon application to the Office of Financial Aid, to mature when the student terminates her connection with the College.

*National Defense  
Student Loan  
Program*

Barnard participates in the National Defense Student Loan Program (Title II of the National Defense Education Act of 1958). A portion of the funds for this Program are granted to the College by the federal government after application by the College; the balance of the funds are contributed by Barnard. These loans are assigned by the College to students as a part of their financial aid. Special consideration is given to those students who intend to teach in college or in public or private elementary or secondary schools.

*State Loans*

Legal residents of the State of New York who are degree candidates are eligible to apply for loans guaranteed by the New York Higher Education Assistance Corporation. No interest is charged as long as the student is registered as a full-time student, but interest and repayment of principal must begin when a student ceases to be so registered. Further information and application forms for these loans should be obtained from local banks.

Other states also have loan plans through the Federal Guaranteed Loan Program. Students should inquire at their local banks regarding such loan plans.

**Barnard College  
Scholarship Funds**

A list of scholarship funds established by gifts, endowment, or in trust follows. The income from such funds, both unrestricted and restricted, and from the funds for grants-in-aid is available each year.

These scholarships are awarded on the basis of financial need to students who have applied for financial aid (See pages 224-225). Students do not apply directly for the specific scholarships listed on the following pages.

**Unrestricted<sup>1</sup>****Niels J. Allison Fund (1964).**

From the estate of Beatrice C. Allison '12. \$55,229.

**Alumnae Scholarship Fund (1922).**

A tenth reunion gift by the Class of 1912, subsequently supplemented by legacy from the estate of Julia Ludlow Young and by gifts of other alumnae. \$19,242.

**Anna E. Barnard Scholarship Fund (1899).**

In honor of Mrs. John G. Barnard by Emily H. Bourne. \$3,000.

**Frances E. Belcher Scholarship Fund (1963).**

By bequest of Miss Frances E. Belcher. \$42,257.

**Ruth Marshall Billikopf Scholarship Fund (1950).**

In honor of Ruth Marshall Billikopf '19. \$5,000.

**Varian White Blumberg Scholarship Fund (1952).**

From the estate of Varian White Blumberg '13. \$5,000.

**Charles E. Bogert Memorial Scholarship and Anna Shippen Young Bogert Memorial Scholarship Fund (1913).**

By bequest of Annie P. Burgess. \$10,000.

**Eva-Lena Miller Booth Scholarship Fund (1932).**

In memory of Mrs. Eva-Lena Miller Booth, by the New York City Chapter of the Daughters of the American Revolution. \$1,000.

**Josephine Brand Scholarship Fund (1970).**

By bequest of Josephine Brand, the income therefrom to be expended within twenty-five years for scholarships. \$45,363.

**Brearley School Scholarship Fund (1889).**

By pupils and former pupils of the Brearley School. \$3,000.

**Martha Ornstein Brenner Scholarship Fund (1915).**

In memory of Martha Ornstein Brenner '99, by her friends. \$4,000.

**Arthur Brooks Fund (1897).**

By Olivia E. Phelps Stokes as a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence. \$5,000.

**Elizabeth Hobe Burnell Scholarship Fund (1971).**

By bequest of Elizabeth Hobe Burnell '20. \$58,041.

**Thomas F. Clark Students' Fund (1928).**

By bequest of Mrs. Fanny Foster Clark. \$100,000.

**Jennie B. Clarkson Scholarship Fund (1898).**

By Mrs. W. R. Clarkson. \$3,000.

**Class of 1921 Scholarship Fund (1931).**

A tenth reunion gift by the Class of 1921. \$2,500.

**Class of 1936 Scholarship Fund (1971).**

A thirty-fifth reunion gift by the Class of 1936. \$8,872.

**Class of 1954 Scholarship Fund (1955).**

Gifts of the Class of 1954 through their fifth reunion in 1959. \$4,584.

<sup>1</sup> Figures compiled as of January 1, 1972.



**College Bowl Scholarship Fund (1968).**

Established with gifts from the General Electric Company, *Seventeen* Magazine, and Gimbels Department Store, earned by the Barnard College Bowl Team's five successive victories. \$19,500.

**Vera B. David Scholarships (1962).**

Income from the trust established by bequest of Vera B. David in memory of her late husband, John David.

**Ada M. Donelle Scholarship Fund (1948).**

By bequest of Mrs. Ada M. Donelle. \$121,751.

**L. Adele Dorsett Fund (1971).**

By bequest of Herman F. Smaltz in memory of Adele Dorsett Smaltz '06. \$1,000.

**Margaret Jane Fischer Scholarship Fund (1968).**

With a gift from Margaret Jane Fischer '35. Awarded annually. \$10,014.

**Fiske Scholarship Fund (1895).**

By Mrs. Martha T. Fiske-Collord. \$5,000.

**Doris P. Gallert Scholarship Fund (1970).**

Established by Trustees out of funds left to the College by a bequest of Doris P. Gallert, income to be used for general scholarship purposes, until further action of the Trustees. \$6,000.



**Galway Fund (1912).**

By an anonymous donor. \$2,400.

**German Scholarship Fund (1950).**

Awarded at the end of her junior year to an outstanding student majoring in German. In case the winner does not need scholarship help, the award shall be a prize of \$100 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date. \$12,200.

**Anita Hyman Glick Scholarship Fund (1968).**

In memory of Anita Hyman Glick '62 by her family and friends. Awarded annually to students who are academically qualified and in need of financial aid. \$11,621.

**Irma Alexander Goldfrank Fund (1919).**

In memory of Irma Alexander Goldfrank '08, by her friends. \$2,106.

**Graham School Scholarship Fund (1907).**

By the Graham Alumnae Association. \$7,300.

**Louise H. Gregory Scholarship Fund (1955).**

From gifts in memory of Louise H. Gregory. \$4,547.

**Harkness Scholarship Fund (1939).**

With a gift from Edward S. Harkness. \$100,000.

**Rita Hilborn Hopf Memorial Scholarship Fund (1966).**

By bequest of Rita Hilborn Hopf '14. \$270,403.

**Charles Evans Hughes Scholarship Fund (1952).**

By bequest of Charles Evans Hughes. \$14,300.

**Lily Murray Jones Scholarship Fund (1950).**

In memory of Lily Murray Jones '05, Alumnae Trustee from 1939 to 1943, by Murray, Alfred, and Wallace Jones. \$25,146.

**Marjorie Lawrence Kaufman Scholarship Fund (1965).**

By the Trustees out of funds left to the College by the life income contract of Marjorie Lawrence Kaufman '19. \$24,290.

**Dr. Ann G. Kuttner Scholarship Fund (1969).**

By the Trustees, out of funds left to the College by the life income contract and bequest of Dr. Ann G. Kuttner. \$216,957.

**Augusta Larned Scholarship Fund (1924).**

By bequest of Augusta Larned. \$10,000.

**Marjorie Herrmann Lawrence Scholarship Fund (1967).**

In memory of Marjorie Herrmann Lawrence '19. \$16,000.

**Harriett Mooney Levy Scholarship Fund (1965).**

By bequest of Harriett Mooney Levy. \$69,339.

**Joan Sperling Lewinson Scholarship Fund (1955).**

With a gift from Joan Sperling Lewinson '13. \$33,077.

**Judith Lewittes Scholarship Fund (1957).**

In memory of Judith Lewittes '55, by her family and friends. \$5,794

**Anne Elizabeth Lincoln Scholarship Fund (1963).**

From the estate of Anne Elizabeth Lincoln '24. \$8,441.

**Amy Loveman Scholarship.**

See Undergraduate Awards, page 242.

**Louise Grace Luby and James Luby Scholarship Fund (1947).**

From the estate of Grace Farrant Luby '93. \$5,000.

**Jeanne S. Mattersdorf and Bertha Miller Memorial Scholarship Fund (1970).**

Established by Stephanie Mattersdorf Miller, the income from the fund shall be awarded to Barnard students based solely on need. \$4,569.

**Cecile Lehman Mayer Scholarship Fund (1962).**

With a gift from Mr. and Mrs. Paul Mazur, the income to be awarded annually for financial aid to the maximum of four or fewer students. \$25,000.

**Memorial Scholarship Fund (1954).**

To receive contributions in memory of deceased alumnae and friends. \$42,218.

**William Moir Scholarship Fund (1912).**

In memory of William Moir by his wife. \$10,000.

**Caroline Church Murray Fund (1918).**

In memory of his wife, Caroline Church Murray, by George Welwood Murray. \$5,000.

**Annette Florance Nathan Scholarship Fund (1947).**

From the estate of Frederick Nathan. \$3,000.

**Dora R. Nevins Scholarship Fund (1969).**

In loving memory of Dora R. Nevins by bequest of Nannie R. Nevins. \$12,500.

**Lucretia Perry Osborn Scholarship Fund (1940).**

In memory of Lucretia Perry Osborn, a Trustee of Barnard College from 1893 to 1930, by her family and friends. \$5,000.

**Jean T. Palmer Scholarship Fund (1969).**

Established by gifts of alumnae and other friends, the income to be awarded by the Committee on Financial Aid or its equivalent, to Barnard students with financial need who are in good standing, regardless of their academic averages. \$126,670.

**Lucy Powell Scholarship Fund (1971).**

By the Trustees, out of funds left to the College by the life income contract of Lucy Powell '13. \$5,652.

**M. Gladys Quinby Scholarship Fund (1961).**

By bequest of M. Gladys Quinby '08 and gifts of friends. \$5,000.

**Eva Rich Scholarship Fund (1968).**

By bequest of Eva Jacobs Rich '07. \$53,243.

**Peter C. Ritchie, Jr. Scholarship Fund (1937).**

By bequest of Virginia J. Ritchie. \$4,436.

**Edith Lowenstein Rossbach Memorial Scholarship Fund (1950).**

In memory of Edith Lowenstein Rossbach '19, by her family, friends, and classmates. \$23,304.



**Edna Heller Sachs Scholarship Fund (1955).**

With a gift from Edna Heller Sachs '10. \$16,260.

**May and Edgar Salinger Scholarship Fund (1971).**

Established in memory of Isaac and Eugenie Herrmann by bequest of May H. Salinger, the income to be used as aid to needy students. \$600,000.

**Eleanor Butler Sanders Scholarship Fund (1922).**

By bequest of Henry M. Sanders. \$10,000.

**Anna M. Sandham Scholarship Fund (1922).**

By bequest of Anna M. Sandham to Columbia University. \$10,000.

**Schmitt-Kanefent Scholarship Fund (1931).**

By bequest of Catherine Schmitt. \$7,102.

**Scholarship Fund (1901).**

By general subscription through the Scholarship Committee of the Board of Trustees. Approximately \$11,980.

**Katherine Flint Shadek Scholarship Fund (1961).**

By Katherine Flint Shadek '44. \$18,000.

**Max Sloman Scholarship Fund (1971).**

Established by Trustees out of funds left to the College by a bequest of Max Sloman. \$5,000.

**Emily James Smith Scholarship Fund (1899).**

In honor of Miss Smith, Dean of Barnard College from 1894 to 1900, by Emily H. Bourne. \$3,000.

**George W. Smith Scholarship Fund (1906).**

In memory of George W. Smith, a Trustee of Barnard College, by Mrs. Martha T. Fiske-Collord. \$5,000.

**Edna Phillips Stern Scholarship Fund (1952).**

In memory of Edna Phillips Stern '09, by her family and friends. \$21,797.

**Isabel Greenbaum Stone Scholarship Fund (1957).**

In memory of Isabel Greenbaum Stone '18, by her family. Recipients of these scholarships are urged to repay the amounts they receive as soon as they are in a position to do so. \$18,565.

**Fannie Manwaring Sturtevant and Daniel Dwight Sturtevant Scholarship Fund (1969).**

Established with a bequest from Ethel G. Sturtevant, Assistant Professor of English, retired, the income to be awarded to Barnard students. \$20,000.

**Solon E. Summerfield Foundation Scholarship Fund (1960).**

Gifts from the Solon E. Summerfield Foundation. \$14,500.

**Veltin School Scholarship Fund (1905).**

By the alumnae of Mlle. Veltin's School. \$3,000.

**Alma F. Wallach Scholarship Fund (1951).**

In memory of Alma F. Wallach from the estate of Richard L. Leo. \$1,000.

**Ella Weed Scholarship Fund (1895).**

In memory of Ella Weed, Chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence, by pupils and alumnae of Miss Anne Brown's School. Approximately \$8,602.

**Hymen and Helen Werner Scholarship Fund (1964).**

In memory of Hymen and Helen Werner. Established by Helen Frankfield Werner '06 in 1953 in memory of her husband. Following her death maintained as the Hyman and Helen Werner Scholarship Fund by her daughters, Therese Werner Kohnstamm '33, Laura Werner Wallerstein '36 and Jean Werner Kane '37. \$6,968.

**Restricted<sup>1</sup>****Mary Gertrude Edson Aldrich Fund (1916).**

By Mrs. James Herman Aldrich to assist, in her senior year, a student who has shown in her college life the moral qualities which go to the making of fine womanhood. \$1,000.

**Bertha R. Badanes Scholarship Fund (1966).**

By Bertha R. Badanes '14. For children of New York City school teachers preferably from Brooklyn. If there is no qualified candidate the award may be used for another needy student, preferably from Brooklyn. \$25,000.

**Barnard College Club of Houston Scholarship Fund (1969).**

Established until further action of the Board of Trustees with the income to be awarded to students from the Houston area. \$9,000.

**Barnard College Club of New York Scholarship Fund (1952).**

For a Barnard student whose home is outside the area of the City of New York. \$40,329.

**Barnard-in-Westchester Endowment Fund (1962).**

By the Barnard College Club of Westchester County. For scholarships, preferably for students from Westchester County. \$16,678.

**Barnard School Alumnae Scholarship Fund (1916).**

By the alumnae of the Barnard School for Girls. Awarded to a student in any class, preference being given to nominees of the school. \$4,000.

**Willina Barrick Memorial Scholarship Fund (1936).**

In memory of Willina Barrick '00, by the College Club of Jersey City. Awarded on the nomination of the Club to a graduate of a Jersey City secondary school. \$10,635.

**Irving Berlin Scholarship Fund (1950).**

By Irving Berlin. Awarded annually to one or more girls of foreign-born parentage. \$23,500.

**Ida Blair Memorial Fund (1937).**

In memory of Ida Blair by the Women's Democratic Union. To be used for the purchase of books for a student, preferably one studying political science. \$700.

**Alice Marie-Louise Brett Scholarship Fund (1930).**

In memory of his daughter, Alice Marie-Louise Brett '15, by bequest of Philip E. Brett. Awarded during her senior year to a student specializing in French. \$10,000.

<sup>1</sup> Figures compiled as of January 1, 1972.

**William Tenney Brewster and Anna Richards Brewster Fund (1961).**

By bequest of William Tenney Brewster. To be awarded preferably in amounts not less than \$1,000, with priority to daughters of professional people educated in independent schools. \$166,614.

**Anne Brown Endowment Scholarship Fund (1939).**

In memory of Anne Brown, by the Anne Brown Alumnae Association, for young women of the City of New York. Approximately \$31,339.

**Carpentier Residence Scholarship Fund (1919).**

By bequest of Horace W. Carpentier. Awarded annually to students who are not residents of New York City or its vicinity. \$200,000.

**Eliza Taylor Chisholm Memorial Scholarship Fund (1901).**

By the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend. \$3,000.

**Mrs. Henry Clarke Coe Scholarship Fund (1910).**

By the National Society of New England Women, now the New York City Colony of the National Society. Awarded, on nomination of the Chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage. After the award is made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman. \$3,600.

**Class of 1919 Decennial Fund (1929).**

A tenth reunion gift by the Class of 1919, for a resident student. \$5,000.

**Augusta Salik Dublin Scholarship Fund (1960).**

In memory of Augusta Salik Dublin '06, by her family and friends. Awarded at the discretion of the Committee on Financial Aid to a Barnard student, to enable her to continue her education in preparation for leadership in a field of social welfare, such as social work, social legislation, housing and city planning, or a related area. Available either to a student for undergraduate study or to a graduating student for graduate work, for one or more years. \$13,182.

**Educational and Cultural Trust Fund of the Electrical Industry Scholarships (1951).**

By the major electrical contracting firms of New York City for sons and daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers. Variable in number.

**English Scholarship Fund (1920).**

By an anonymous donor. Awarded to a student of good standing who is specializing in English and is in need of help; with the proviso that, if in any year there is no student specializing in English who is particularly deserving of aid, the scholarship may be used to assist a student majoring in some other subject. \$5,000.

**Gladys Renshaw Esterbrook Scholarship Fund (1958).**

In memory of her daughter, Gladys Renshaw Esterbrook '20, by bequest of Minnie R. Esterbrook. Preference is given to applicants majoring in English or French. \$5,000.



**Martha T. Fiske Scholarship Fund (1911).**

In memory of her sister, Mrs. Martha T. Fiske-Collord, by Anna E. Smith. Awarded to an applicant not a resident of New York City or its suburbs. \$5,000.

**Helen Jenkins Geer Scholarship Fund (1940).**

In memory of her mother, Helen Jenkins Geer '15, by Helen Hartley Geer '40. Awarded annually, after conference with the donor. \$5,000.

**Virginia Gildersleeve International Scholarship Fund (1937).**

In honor of the international work of Dean Emeritus Gildersleeve, by Charles R. Crane. Awarded annually to a foreign student coming to Barnard to study. \$15,100.

**Virginia C. Gildersleeve Scholarship Fund (1968).**

In memory of Dean Emeritus Gildersleeve by the Class of 1923 on their forty-fifth reunion. Awarded to a student majoring in the humanities, with priority given to an English major. \$5,245.

**Julius Held Scholarship Fund (1970).**

Established by gifts of alumnae and other friends, the income from the fund shall be awarded annually to a deserving student majoring in Art History. \$32,691.

**Emma Hertzog Scholarship Fund (1904).**

With gifts from residents of Yonkers, New York. Awarded in conference with the faculty of the Yonkers High School, to a graduate of that school. \$3,000.

**Marion Alice Hoey Fund (1944).**

In memory of Marion Alice Hoey '14, by Nellie Poorman. Preference is given to applicants studying Greek and Latin. \$2,000.

**Lillia Babbitt Hyde Scholarship Fund (1953).**

By the Lillia Babbitt Hyde Foundation. Awarded to premedical students. \$25,000.

**Charlotte Louise Jackson Scholarship Fund (1928).**

In memory of Charlotte Louise Jackson, by bequest of her sister, Fannie A. Jackson. Awarded to a graduate of a Yonkers High School selected by or under the direction of the Board of Education of Yonkers. \$5,000.

**Mary E. Larkin Joline Scholarship Fund (1927).**

By bequest of Mary E. Larkin Joline. Awarded to a student who is specializing in music. \$10,000.

**Werner Josten Scholarship Fund (1955).**

With a gift from Mrs. Werner Josten. Preference is given to a student majoring in music, but if in any year no such student is eligible, the scholarship may be awarded to a student majoring in some other field. \$25,916.

**Jessie Kaufmann Scholarship Fund (1902).**

In memory of his daughter, Jessie Kaufmann, by Julius Kaufmann. Awarded on the merits of entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course. \$4,000.

**Kimball Scholarship Fund (1938).**

By bequest of Lillian Emma Kimball. Awarded to a woman from

Spain or one of the Spanish-American countries who shall pursue a year of graduate or undergraduate study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish. \$32,883.

**Eleanor Kinnicutt Scholarship Fund (1911).**

In memory of Mrs. Francis P. Kinnicutt, a Trustee of Barnard College. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

**Carolina Marcial-Dorado Scholarship Fund (1953).**

In memory of Professor Carolina Marcial-Dorado, for many years head of the Barnard College Department of Spanish. Awarded to a student from Spain, or to a Spanish major continuing graduate studies in the United States or abroad. If at any time there is no applicant eligible for the grant, it may at the discretion of the department be awarded to a student who is majoring in Spanish. \$15,378.

**Eugene F. and Minnie Gouger McGowan Scholarship Fund (1955).**

By an anonymous donor. Preference is given to candidates from Mecklenburg County, North Carolina. If in any year no such candidate is eligible, the scholarship may be awarded to a student or students from other areas. \$10,000.

**Fannie Moulton McLane Scholarship Fund (1961).**

By bequest of Fannie Moulton McLane '07. Awarded for tuition to deserving students who are citizens of the United States of America, with preference given to those, if any, who satisfactorily establish that they are of Colonial or Revolutionary ancestry, or the descendants of a Civil War soldier. \$7,500.

**Mrs. Donald McLean Scholarship Fund (1906).**

By the New York City Chapter of the Daughters of the American Revolution. Awarded, in conference with a representative of the Chapter, to a student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course. \$3,000.

**Ferry Starr Morgan Scholarship Fund (1959).**

In memory of her father, by bequest of Grace B. Morgan '19. Awarded to a student who is majoring in music or philosophy. \$10,000.

**Lawrence Morris Scholarship Fund (1968).**

In memory of Lawrence Morris by his sister Mrs. Walter Sturges (Alice Morris '36) and other members of the family. Awarded annually with preference given to a nominee of the New York City Mission Society. \$11,590.

**Mary Barstow Pope Scholarship Fund (1913).**

In memory of Mary Barstow Pope, teacher in Miss Chapin's School, by her friends, her fellow teachers, and her pupils. Open to any undergraduate for the whole or part of her course, and awarded on the nomination of a self-perpetuating committee representing the founders. \$4,000.

**Public Service Scholarship Fund (1934).**

By the Women's Organization for National Prohibition Reform. Awarded to young women of exceptional ability, interested in

following a career of public service in the field of political science, who show special promise of future usefulness in the public service. Awarded at the discretion of the Faculty of Barnard College to one or two students in their junior or senior years. In the case of a particularly promising student the Faculty may, at its discretion, extend the award to cover one, two, or three additional years of graduate study at an approved college or university in order to encourage young women of exceptional ability to complete a course of study which will fit them for service in public life. \$30,000.

**Lucille Pulitzer Scholarship Fund (1899).**

In memory of his daughter, Lucille Pulitzer, by Joseph Pulitzer. Three are restricted to students from the City of New York; eight are for resident students. \$176,459.

**Amelia Agostini de del Rio Scholarship Fund (1955).**

In honor of Amelia de del Rio, Chairman of the Department of Spanish from 1942 to 1962. Awarded to a student from Mrs. de del Rio's native island of Puerto Rico. If at any time there is no applicant from Puerto Rico eligible for the grant, it may, at the discretion of the department, be awarded to a student who is majoring in Spanish. \$21,333.

**Dr. Harry Rosenstein Scholarship Fund (1967).**

In memory of Dr. Harry Rosenstein by his wife, Bertha Z. Rosenstein, and daughter, Gertrude L. Rosenstein '48. Awarded to a premedical student. \$5,000.

**Joan Rosof Scholarship Fund (1964).**

By Mr. Murray Rosof in honor of his daughter, Joan Rosof '61. Awarded to qualified students with the wish, but not the directive, that preference be given to his descendants or, in the absence thereof, to students from the State of New York. \$5,340.

**Felix St. George Scholarship (1955).**

In memory of her father, Felix St. George, by bequest of Ida St. George. Awarded to an incoming freshman whose subject of interest is a science or premedical course, more particularly physics, chemistry, or biology. \$7,455.

**Dorothy K. Scheidell Scholarship Fund (1965).**

In memory of Dr. Dorothy K. Scheidell '28, by her family, classmates, and friends. Awarded to a premedical student. If in any year no student qualifies for the award, it may be deferred until the following year. If no student qualifies over a three-year period, the accumulated income may be awarded to any able student with financial need. \$5,495.

**Lillian Schoedler Scholarship Fund (1967).**

By bequest of Lillian Schoedler '11. Income and/or principal awarded to deserving students with financial need who have shown promise of qualities of leadership and/or potentialities for future civic or social usefulness. Awards preferably distributed in small amounts to many students. \$65,860.

**Fred Curtis Smith Memorial Scholarship Fund (1955).**

In memory of Fred Curtis Smith, at the time of his death Vice President and Mortgage Officer of the Bowery Savings Bank. \$57,000.



**Hilda Staber Scholarship Fund (1967).**

By bequest of Hilda Staber '05. Awarded to foreign students of character and ability. \$25,000.

**Emma A. Tillotson Scholarship Fund (1910).**

By Mrs. Luther G. Tillotson. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

**Clara Bittenwieser Unger Memorial Fund (1938).**

In memory of his daughter, Clara Bittenwieser Unger '13, by Joseph L. Bittenwieser. Awarded annually to assist through her senior year a student whose subject of major interest is government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution. \$2,500.

**Helen Elizabeth Vosburgh Scholarship Fund (1934).**

In memory of Helen Elizabeth Vosburgh '25, by bequest of Katherine G. Lippke. Preference is given to a self-supporting student. \$5,000.

**Gertie Emily Gorman Webb Scholarship Fund (1953).**

By Charles Webb. Awarded to a student nominated by the Department of History. \$4,990.

**Alma Gluck Zimbalist Scholarship Fund (1940).**

By bequest of Alma Gluck Zimbalist. Awarded annually to a student who wishes to major in political science. \$10,000.

**Established on a  
Temporary Basis**

**Barnard-in-Brooklyn Club Scholarship (1944).**

A tuition scholarship, with variable stipend. Awarded annually, with preference given to a student from Brooklyn.

**The Barnard College Club of Detroit Scholarship (1958).**

A tuition scholarship with variable stipend. Awarded annually, with preference given to a new student from Metropolitan Detroit.

**Christine H. Edie Memorial Scholarships (1968).**

Scholarships of \$500 each awarded biannually to students in their junior year who are majoring in anthropology or in English, with preference given to the former.

**Fairfield County Scholarship (1962).**

Awarded preferably to entering freshmen from Fairfield County for one year only.

**Holland Dames Scholarship (1915).**

In honor of Fanny I. Helmuth, by the Society of Daughters of Holland Dames. Awarded in conference with a representative of the Society to a student descended from the early Dutch settlers.

**Thrift Shop Scholarships (1938).**

Awarded annually from the proceeds of the Barnard Scholarship Unit of Everybody's Thrift Shop, 330 East 59th Street, New York, N.Y. 10022.

The following funds were established to honor those who have shown exceptional distinction in their chosen field of study. The income from these funds is awarded each year, unless otherwise stated.

### **Graduate Fellowships**

#### **Associate Alumnae of Barnard College Graduate Fellowship (1963).**

To be awarded annually to a graduate who shows exceptional promise in her chosen field of work. \$50,000. Applications must be filed in the Alumnae Office by February 1.

#### **Anne Davidson Fellowship Fund (1971).**

In honor of Anne Davidson by the R. W. Davidson family and friends. Awarded at the discretion of the faculty committee of the Program on Environmental Conservation and Management to a graduating senior who has demonstrated continuing interest in the study of conservation. The holder is to pursue a year's graduate study in conservation at Columbia University or any other university of approved standing. Income on \$15,000.

#### **George Welwood Murray Graduate Fellowship Fund (1930).**

By George Welwood Murray. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the humanities and/or the social sciences. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. Students who have graduated in February are eligible as well as those who are to graduate in June. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. \$20,000.

#### **Grace Potter Rice Fellowship Fund (1935).**

In memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934, by Winthrop Merton Rice. Awarded as an academic honor to the member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. Students who have graduated in February are eligible, as well as those who are to graduate in June. The holder is to pursue a year of graduate study in the natural sciences or mathematics at Columbia or any university or college of approved standing. \$24,000.

#### **The Herbert Maule Richards Fund (1933).**

In memory of Professor Richards, a member of the Department of Botany from 1896 to 1928 and Chairman from 1897 to 1928, by the Barnard Botanical Club, former students, and friends. Granted from time to time to further botanical research, under the direction of an approved institution, to a student or an alumna of Barnard College. \$5,000.

#### **Alpha Zeta Club Graduate Scholarship Fund (1936).**

By the Alpha Zeta Club, Inc. Awarded at the discretion of the

Faculty as an academic honor to a member of the graduating class of Barnard College who, in their opinion, shows promise of distinction in her chosen line of work. It may also be awarded to an outstanding recent Barnard graduate who is a candidate for a higher degree. \$21,038.

**William Mason Scholarship (1928).**

The William Mason Scholarship in music is awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music. An award of \$500.

**Margaret Meyer Graduate Scholarship Fund (1952).**

In memory of Margaret Meyer Cohen '15, by bequest of Annie Nathan Meyer. Awarded to a student in the graduating class for instruction in secretarial work. \$3,000.

**Graduate Prizes**

**Frank Gilbert Bryson Prize (1931).**

In memory of Frank Gilbert Bryson, by bequest of Ella Fitzgerald Bryson '94. The President of the College shall fix the method of selecting a senior who, in the opinion of the class, has given conspicuous evidence of unselfishness and who has made the greatest contribution to Barnard during her college career. Income on \$3,000.

**Dean Prize in German (1925).**

By Edward D. Adams for the promotion of the study of German language and literature in Barnard College. Awarded to that member of the senior class who has throughout her course done the best work in German language and literature. Income on \$1,000.

**The Michael T. Glynne Memorial Prize (1971).**

By Linda A. Glynne '71. Awarded annually to the senior accepted by a medical school who has demonstrated outstanding achievement in the humanities and the social sciences. She must be a non-science major. \$100.

**Kohn Mathematical Prize (1892).**

By Mrs. S. H. Kohn. Awarded to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course. Income on \$1,000.

**Undergraduate  
Awards<sup>1</sup>**

**Estelle M. Allison Prize Fund (1937).**

By bequest of Estelle M. Allison. Awarded to a student for excellence in literature. Income on \$1,001.

**Mary E. Allison Prize Fund (1937).**

In memory of her mother, Mary E. Allison, by bequest of Estelle M. Allison. Awarded to a student for general excellence in scholarship. Income on \$1,001.

**The American Statistical Association Prize,  
New York Area Chapter (1960).**

Awarded annually to the outstanding undergraduate student in statistics. A one-year student membership in the American Statistical Association and \$50.

**Edna Henry Bennett Memorial Fund (1927).**

In memory of Edna Bennett '15, Lecturer in Zoology, by her friends. Awarded by the Department of Biology for work at a biological laboratory offering summer courses. Income on \$1,640.

<sup>1</sup> Figures compiled as of January 1, 1972.



## **Saint Agatha-Muriel Bowden Memorial Prize Fund (1971).**

Established by the Saint Agatha Alumnae Association in memory of its school principal from 1930 to 1940. Awarded for superior proficiency in the study of Chaucer and Medieval Literature. Income on \$1,600.

## **Eugene H. Byrne History Prize Fund (1960).**

In memory of Eugene H. Byrne, Professor of History at Barnard College and Executive Officer of the Department from 1931 to 1949, by his wife, Janet M. Byrne, and friends. Awarded for superior work to an undergraduate majoring in history. Income on \$3,604.

## **Helen Marie Carlson French Prize Fund (1965).**

In memory of Helen Marie Carlson by her family and friends. Awarded to the student who writes the best composition in fourth-term French (French 4), the course which Miss Carlson directed for many years, or a similar course at the discretion of a board of three judges chosen by the College. \$3,008.

## **The Columbia University Press Prize.**

A copy of the Columbia Encyclopedia is awarded by the Columbia University Press to the member of the sophomore class who has done the best writing for Barnard Bulletin.

## **Helen R. Downes Prize (1964).**

In honor of Professor Emeritus Helen R. Downes '14, Chairman of the Barnard College Department of Chemistry from 1945 to 1960, by former students and friends. Awarded at the end of her senior year to the student who, in the opinion of the Premedical Committee, shows greatest promise of distinction in medicine or the medical sciences. Income on \$1,958.

## **The Jenny A. Gerard Medal (1908).**

The Jenny A. Gerard Gold Medal, given by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the student who is most proficient in Colonial history.

## **Katharine Reeve Girard Prize (1964).**

In memory of Katharine Reeve Girard '33, by her husband, Professor Richard A. Girard, and her friends. Awarded by the Faculty Committee on Honors to a student whose interests are in the international aspects of the work in her major field. Income on \$1,000.

## **Herrman Botanical Prize Fund (1892).**

Mrs. Esther Herrman. Awarded to the most proficient undergraduate student in biology. Income on \$1,000.

## **Arlene Hershey Memorial Fund (1964).**

Awarded annually to a senior in the Education Program.

## **Medal of the Hispanic Institute in the United States.**

Awarded to an undergraduate for the best essay on Cervantes.

## **Frederic G. Hoffherr French Prize Fund (1961).**

In memory of Frederic G. Hoffherr, Associate Professor of French from 1936 to 1955. Awarded annually to a student in Intermediate French (Course 3) for excellence in oral French. The prize is offered

to encourage proficiency among students who are not themselves of French background. The winner is chosen on the basis of a contest sponsored by the French Department. Income on \$1,025.

#### **The Elizabeth Janeway Prize for Prose Writing.**

A prize of \$500 awarded annually. Open to all undergraduates for a work of prose, whether fiction or non-fiction, which gives the greatest evidence of creative imagination and sustained ability. All undergraduates who intend to enter the prize competition must notify the Chairman of the English Department of their intention to do so by November 1, at which time they will receive detailed instructions as to the requirements. The final manuscripts must be submitted to the chairman by March 15. The prize will be given at the discretion of a board of three judges chosen by the College and the donor.

#### **Eleanor Keller Prizes (1968).**

By bequest of Marguerite Mespoulet, Professor Emeritus of French at Barnard College, in memory of Eleanor Keller, Professor of Chemistry at Barnard College. One prize, not exceeding \$1,000, to be awarded annually to a member of the junior class, not necessarily a French major, who has an outstanding record in courses of French literature offered by the department. Another prize, not exceeding \$1,000, to be awarded annually to a member of the senior class, not necessarily a French major, who has an outstanding record in courses concerned with French culture. \$43,517.

#### **Amy Loveman Memorial Fund (1956).**

In memory of Amy Loveman '01, by her friends and classmates. First charge on the income shall be an annual prize of \$100 for the best original poem by a Barnard undergraduate. Terms of the competition will be announced by the English Department. The balance of the income shall be allocated to scholarships and shall be known as the Amy Loveman Scholarship. \$20,100.

#### **The Lenore Marshall Prizes for Writing (1960).**

In memory of Lenore Marshall. For excellence in poetry and prose contributed to the undergraduate magazine. Adjudged by Professor Janice Thaddeus, in consultation with the Department of English and the editors-in-chief, and awarded to promising young writers in need of financial aid. Two at \$100 each.

#### **Sidney Miner Poetry Prize Fund (1962).**

In memory of Sidney Louise Miner '14, by bequest of Rosemary Alice C. Thomas. Awarded annually by the Department of English to the senior major who has shown distinction in the reading, writing, and study of poetry: the judges to be members of the Department of English. Income on \$5,000.

#### **The William Pepperell Montague Prize Fund (1949).**

By William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. Awarded to a student of Barnard College who, in the opinion of the members of the Department of Philosophy, shows promise of distinction in the field of philosophy. Income on \$5,441.

#### **Phoebe Morrison Memorial Prize Fund (1969).**

Awarded upon recommendation of the Barnard College Political Science Department to a political science major planning to attend law school. Income on \$1,495.

### **The Helen Prince Memorial Prize Fund (1921).**

In memory of his daughter, Helen C. Prince '22, by Julius Prince. Awarded to an undergraduate student for excellence in dramatic composition. Income on \$1,200.

### **Katharine E. Provost Memorial Prize Fund (1949).**

In memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Controller of Barnard College and, at the time of her death, Superintendent of Buildings and Grounds. Awarded for superior work by an undergraduate major in economics. Income on \$1,000.

### **Caroline Gallup Reed Prize Fund (1916).**

In memory of her mother, Mrs. Sylvanus Reed, by Mrs. William Barclay Parsons for the recognition of outstanding work either in the field of the origin of Christianity and early church history or in the general field of the history and theory of religion. Awarded to the student who shows the highest excellence in one of these fields of work. The award is made partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion. Income on \$1,000.

### **Marie Reimer Scholarship Fund (1953).**

In honor of Professor Emeritus Marie Reimer, for many years Chairman of the Barnard College Department of Chemistry, by former students and friends. Awarded annually at the end of her junior year to an outstanding student majoring in chemistry. In case the winner does not need financial help, the award shall be a prize, the amount to be recommended by the Chemistry Department. The balance of the income shall be awarded by the Director of Financial Aid to an outstanding student at the end of her junior year who is majoring in chemistry and who has financial need. The students receiving financial aid from this fund shall be informed of the source of the award. \$5,100.

### **Bettina Buonocore Salvo Prize Fund (1966).**

By bequest of Bettina Buonocore Salvo '16. Awarded annually to a deserving graduate or other student studying Italian, selected by the Department of Italian. Income on \$5,000.

### **Sylvia Kopald Selekman Prize Fund (1960).**

In memory of Sylvia Kopald Selekman '20, by Janet Robb. Awarded by the Department of Economics to the freshman who is doing the best work in introductory economics. Income on \$1,000.

### **Henry Sharp Prize Fund (1970).**

Established in memory of Henry Sharp, Professor of Geology at Barnard College from 1941 to 1967, by gifts of alumnae, family and friends. Awarded annually to an outstanding student majoring in the program on Environmental Conservation and Management. Income on \$2,643.

### **Spanish Prize (1959).**

A prize of \$100 awarded annually to a Spanish major who, in the opinion of the Department, has done the most distinguished work in Spanish language and literature. \$2,500.

### **Speranza Italian Prize Fund (1911).**

In memory of Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard College from 1890 to 1911, by a former



student. Awarded to a student for excellence in Italian. Income on \$1,000.

**Stains-Berle Prize Fund in Anglo-Saxon (1968).**

In memory of her grandmothers, Caroline Foy Stains and Katharina Mohrherr Berle and in honor of Professor Cabell Greet, by Katherine G. Stains '52. Awarded annually to an undergraduate student for excellence in Anglo-Saxon language and literature. Income on \$1,000.

**Jean Willard Tatlock Memorial Prize Fund (1917).**

In memory of Jean Willard Tatlock '95, by her friends. Awarded to the undergraduate student most proficient in Latin. Income on \$1,250.

**Rosemary Thomas Prize Fund in French (1966).**

In honor of the poet Rosemary Thomas, by bequest of Helen Marie Carlson, a long-time member of the Barnard College French Department, awarded annually to the undergraduate student preferably, but not necessarily, a French major, who, in the opinion of the members of the Barnard College French Department, has shown the greatest evidence of a special sensitivity and awareness in her study of French poetic literature. Income on \$10,050.

**Von Wahl Prize (1915).**

In memory of Constance von Wahl, '12, President of the Undergraduate Association. Awarded to a student for excellence in biology, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded. Income on \$1,300.

**Virginia B. Wright Art History Prize Fund (1969).**

Awarded to the most promising senior majoring in Art History. Income on \$1,540.

The following prizes of Columbia University are by their terms open to students of Barnard College:

**The Academy of American Poets Prize.**

A prize of \$100, established by the Academy of American Poets for the best poem or group of poems by a student. Awarded by the Department of English of Columbia University at the close of the Spring Term. Manuscripts should be submitted prior to April 1. For further information consult the Chairman of the Department of English and Comparative Literature of the University.

**Bennett Prize.**

A prize established through a gift of \$1,000 from James Gordon Bennett may be awarded by the Faculty of Political Science, with the approval of the Chairman of the Bennett Prize Committee, for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Bachelor's degree who pursue satisfactory courses in political science. Manuscripts should be submitted prior to the last day of classes of the Spring Term. For additional information consult Professor Joseph A. Rothschild.

**The Bunner Medal.**

The H. C. Bunner Gold Medal, in memory of Henry Cuyler Bunner, is awarded at Commencement to the candidate for a Columbia degree who shall present the best essay on any topic dealing with

American literature selected in connection with course or seminar work in American literature and approved by the Chairman of the Bunner Prize Committee. For additional information consult Professor Carl Hovde.

## **Earle Prize in Classics.**

A prize of \$50, in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900 and Professor of Classical Philology from 1900 to 1905, is awarded to a candidate for the degree of Bachelor of Arts, for excellence in sight translation of passages of Greek and Latin. For further information consult Professor James A. Coulter.

## **The Caroline Phelps Stokes Prize.**

The Caroline Phelps Stokes Prize of about \$45 is awarded at Commencement to that student who has been a degree candidate for at least one academic year in Columbia College or Barnard College and who has written the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work. Material should be submitted by January 1. For additional information consult Professor Joseph A. Rothschild.

## **Van Rensselaer Prize.**

To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by April 1. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna Griswold Van Rensselaer Fund, about \$50. For additional details consult the Department of English and Comparative Literature.

## **Woodberry Prize.**

Established by the Woodberry Society as a memorial to George Edward Woodberry. Awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by April 1. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages, unless a single poem is submitted in excess of that amount. If, in the opinion of the committee of judges, no poem submitted in any prize year is worthy of this award, the prize will not be given. Awarded in 1969-70. Value of prize about \$100. For additional details consult the Chairman of the Department of English and Comparative Literature.

The following prize is also open to Barnard students:

## **Susan Huntington Vernon Prize.**

A prize of about \$25, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943. The prize is awarded, on recommendation of the Chairman of the Department of Spanish, for the best original essay written in Spanish by a senior whose native language is not Spanish, but who is taking language courses at Barnard, Mount Holyoke, Radcliffe, Smith, Vassar, or Wellesley.

The Associate Alumnae of Barnard College is made up of sixteen thousand members from all states of the Union and more than sixty foreign countries. The Associate Alumnae serve the College in three important ways: by interpreting Barnard to the community; by keeping local secondary school students informed about Barnard; and by aiding in the support of the College.

The Associate Alumnae functions through a group of officers, directors, and alumnae trustees elected by members of the Association. The central office of the Associate Alumnae is in 115 Milbank Hall.

Barnard College Clubs, the Alumnae Council with nationwide membership, and a group of qualified and authorized alumnae make it possible to find spokesmen for Barnard at distances far from New York. Students who are considering Barnard may find it helpful to talk personally with the Barnard Area Representative living nearest them. A list of these representatives as well as officers of the Associate Alumnae is given below.

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	1889	1899	1909	1914	1919	1924	1929	1934	1939	1944	1949	1954	1965	1966	1967	1968	1969	1970	1971	1972
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	1890	1900	1910	1915	1920	1925	1930	1935	1940	1945	1950	1955	1966	1967	1968	1969	1970	1971	1972	
<b>Undergraduates, Regular</b>																				
Seniors .....	....	40	62	123	87	126	227	181	164	208	260	245	375	361	437	420	433	468	490	
Juniors .....	....	40	122	110	190	259	237	220	191	314	277	340	394	475	522	568	480	515	512	
Sophomores .....	....	37	109	191	193	234	247	226	210	314	272	317	447	504	475	493	517	515	542	
Freshmen .....	14	54	188	240	224	271	311	267	246	324	271	304	454	459	457	458	485	476	455	
Unclassified students .....	....	....	....	....	....	57	54	103	143	56	17	1	14	25	23	23	21	16	2	
	14	171	481	664	694	947	1076	997	954	1216	1097	1207	1684	1824	1914	1962	1936	1990	2001	
<b>Special Students:</b>																				
Matriculated .....	....	21	24	32	39	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
Nonmatriculated .....	....	....	30	32	22	33	28	29	31	21	15	20	11	11	21	27	22	33	27	
Departmental (1889-1896) .....	22	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
Music students	....	41	....	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
(1896-1904, 1914-1915) .....																				
	22	62	54	69	61	33	28	29	31	21	15	20	11	11	21	27	22	33	27	
<b>Graduate Students .....</b>																				
(1890-1900)	....	82	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
<b>Total Registration .....</b>	36	315	535	733	755	980	1104	1026	985	1237	1112	1227	1695	1835	1935	1989	1958	2023	2028	
<b>Degrees Conferred:</b>																				
A.B. ....	....	39	88	141	139	198	247	221	206	270	303	258	391	395	452	502	437	468	....	
B.S. (1909-1918) .....	....	....	2	8	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
A.M. (1898-1900) .....	....	18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
Ph.D. (1899-1900) .....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	

Total Bachelor's Degrees conferred 1893-1971: A.B., 16,218; B.S., 77.  
† These figures represent registration in the Autumn Term plus students admitted in the Spring Term.

**Group (1) M W F 9**

Biology 1-2  
 Biology 6  
 Economics 17, 18  
 French 23-24  
 German 25y  
 Philosophy 1x; 1y (I)  
 Spanish 6

**Group (2) M W F 10**

Art History 74  
 Chemistry 61; 62  
 Classical Literature 32x  
 Economics 1; 2 (I)  
 English 67  
 English 73  
 English 90  
 French 20 (I)  
 French 20x (I)  
 French 21y  
 French 33  
 French 36  
 German 4x  
 Greek 1-2  
 Greek 11  
 History 25; 26  
 History 51; 52  
 Mathematics 7, 8  
 Philosophy 1x, 1y (II)  
 Philosophy 35, 36  
 Physics 3, 4  
 Political Science 24  
 Psychology 12  
 Psychology 21  
 Sociology 21  
 Spanish 11y (I)  
 Spanish 14

**Group (3) M W F 11**

Art History 57, 58  
 Biology 13  
 Chemistry 31  
 Chemistry 32  
 Chemistry 36  
 Chemistry 59  
 Economics 1 (II)  
 Economics 22  
 English 63, 64  
 English 89y  
 French 20 (II)  
 French 20x (II)  
 French 41  
 German 7-8  
 German 11  
 German 45y  
 History 13  
 History 17; 18  
 History 69; 70  
 Latin 1-2

**Music 1-2 (I)**

Philosophy 1x; 1y (III)  
 Philosophy 43, 44  
 Political Science 1; 2  
 Psychology 30  
 Sociology 33  
 Sociology 36  
 Spanish 11 (I)  
 Spanish 11y (II)  
 Spanish 18

**Group (4) M W F 1:10**

Art History 1-2  
 Art History 62  
 Biology 8  
 Biology 15; 16  
 Economics 19  
 English 51, 52  
 English 59-60 (I)  
 English 65  
 French 22x  
 French 34  
 Geography 33  
 German 3y  
 History 27; 28  
 Latin 3; 4  
 Music 1-2 (III)  
 Philosophy 5  
 Philosophy 82  
 Philosophy 84  
 Psychology 17  
 Psychology 20  
 Psychology 27  
 Sociology 34x  
 Sociology 38  
 Sociology 46x  
 Spanish 3y  
 Spanish 4x  
 Spanish 25; 26

**Group (5) M W F 2:10**

Art History 78  
 Art History 79  
 Biology 10  
 Economics 26  
 Economics 29; 30  
 English 59-60 (IV)  
 English 69  
 English 88  
 German 32  
 German 55y; 56x  
 History 11; 12  
 History 65  
 Latin 33y  
 Philosophy 38  
 Philosophy 79  
 Political Science 11  
 Religion 25  
 Sociology 48



## Group (6) Tu Th 9:10-10:25

Biology 17; 18  
Chemistry 1; 2  
Chemistry 11  
Chemistry 30  
Economics 1 (III)  
Economics 2 (II)  
English 76  
French 20 (IV)  
History 64  
Mathematics 31  
Philosophy 8  
Political Science 26  
Psychology 9  
Psychology 16  
Psychology 25  
Psychology 38  
Religion 53  
Religion 56  
Religion 64

## Group (7) Tu Th 10:35-11:50

Art History 48  
Art History 60  
Art History 75, 76  
Economics 2 (III)  
Economics 27; 28  
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English 77; 78  
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French 40  
French 48  
German 28  
History 3; 4  
History 19; 20  
History 55; 56  
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Philosophy 1x; 1y (IV)  
Philosophy 33  
Political Science 7  
Political Science 23y  
Political Science 25  
Program in the Arts 1-2  
Religion 15  
Sociology 43  
Sociology 50  
Spanish 17  
Spanish 20  
Spanish 32  
Studies in the Humanities 3

## Group (8) Tu Th 11

Biology 5  
Biology 7  
Psychology 5; 8  
Psychology 57  
Psychology 68  
Sociology 1, 2

## Group (9) Tu Th 2:10-3:25

Art History 45  
Art History 70  
Biology 14  
Economics 7; 8  
Economics 33  
English 80  
English 85; 86  
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French 37  
German 50  
Greek-Latin 61, 62  
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Philosophy 49  
Political Science 28  
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Religion 26  
Sociology 32  
Sociology 39  
Sociology 45  
Spanish 23y  
Studies in the Humanities 1, 2  
Studies in the Humanities 4

## Group (10) M W F 3:10

Art History 77  
Art History 84  
English 59-60 (II)  
English 84  
Geography 3

## Group (11)

Psychology 1x; 1y (Sections)

## Group (12) M W F 12:00

English 71  
French 20 (III)  
French 47  
Music 1-2 (II)  
Philosophy 1x; 1y (V)

## Group (13) Tu Th 3:00-5:00

Art History 51, 52  
Art History 69  
Economics 10  
Economics 12x  
English 59-60 (III)  
Modern Greek 1-2

## Group (14)

French 1-2 (Sections)  
French 2x (Sections)  
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French 4; 4x (Sections)  
French 21, 22 (Sections)

- Group (15)**  
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- Group (16)**  
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English 3, 4 (Sections)  
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English 7, 8  
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English 14  
English 21; 21y  
English 23, 24  
English 27; 28  
English 30x  
English 31, 32  
English 33, 34  
English 35, 36  
English 38x  
English 40x; 40y (Sections)  
English 82  
English 93; 93y  
English 96  
English 97; 98 (Sections)  
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Environmental Conservation 46  
Environmental Conservation 48  
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Environmental Conservation
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French 16  
French 51; 52  
French 53; 54  
French 59-60  
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Geology 60  
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German 5  
German 61; 62  
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History 16  
History 61  
History 67  
History 75; 76  
History 78  
History 81  
History 90  
History 91-92  
History 93-94  
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Studies 1-2  
Medieval & Renaissance  
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Medieval & Renaissance  
Studies 90  
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Philosophy 39; 40  
Philosophy 75  
Philosophy 77  
Philosophy 87-88  
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Political Science 10  
Political Science 18y  
Political Science 20  
Political Science 45y  
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Psychology 45x; 46y  
Psychology 48x; 48y  
Psychology 49  
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